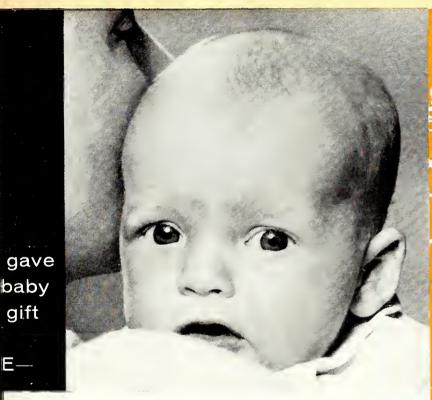
CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

NOVEMBER 4 1961



w give health, strength, happiness

was you who gave your baby the precious ut that life is still very much in your hands. sturdy growth, strong bones, protection od ills—these, too, are gifts for you to give, baby, seemingly so fragile and helpless, has strong resources of natural strength and rawn from the mother before birth. But go by the baby becomes more and more pon outside sources for the elements a ceds to make it grow bigger and stronger, ded are Vitamin A for vigorous growth and baby good eyesight, Vitamin D for strong and teeth, and Vitamin C for firm flesh and to build up resistance against infection.

you ensure that YOUR baby ough of these vital vitamins? is depend upon two separate sources, cod orange juice. Unfortunately, the oil is a bit messy and difficult to give in a spoon, and if mixed with milk in a bottle it tends to stick to the glass and so be washed away. It also has a habit of 'repeating', and children—especially as they grow older and more vocal—quite often protest at its fishy flavour.

But HALIBORANGE doesn't lead to any such troubles. It contains all three of the vital vitamins A, C, and D vour baby needs, in the right amounts for baby's growth—all combined in one. What's more it tastes delicious, sweeter than ordinary orange juice, and it has no fishy smell or flavour and does not repeat, Babies and young children simply love it!

Cost? No worry there, either! At one teaspoonful daily for babies from 3 weeks to 6 months, HALIBORANGE costs less than three halfpence a day. Even the larger daily dose for six-month-olds costs only about twopence-halfpenny! So little to give for the joy of seeing your baby grow into a sturdy, healthy, happy youngster!

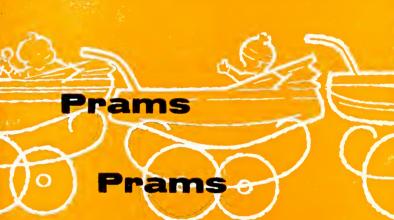
For baby's welfare



Haliborange

and steady, sturdy development

Sweet Orange Juice plus Vitamins A and D with EXTRA Vitamin C



Prams

on the pavements
outside the chemists' shops
Could it be this*
that brought them?



Very likely — for this powerful full page advertisement for Haliborange on the left will convince young mothers all over Britain that one of the keys to their babies' health, strength, and happiness lies no further away than the nearest chemist's shop.



COMES TO BRITAIN

with a million sales to prove its worth!

NEW TREATMENT FOR RESPIRATORY DISORDERS INTERNATIONALLY ACCLAIMED

COLDS · CATARRH **BRONCHITIS**



VAST POTENTIAL IN U.K. PROFIT TO RETAILER UP TO 35%

With winter on the doorstep, sufferers from respiratory disorders are beginning their annual search for relief. This search could end in your shop if you stock the outstandingly successful Hico CLIMAMASK. This new method of warm, dry, medicated air inhalation has already earned the gratitude of thousands of men, women and children in other countries. Now, to accelerate its introduction into Britain, the CLIMAMASK is using the mighty selling power of the T.V. TIMES and other mass media.

In Britain, where respiratory ailments are so prevalent, the sales potential of the CLIMAMASK is enormous. Be sure to share this market by ordering without delay.

TV TIMES

29.10.61 READERSHIP

13,725,000

retail price £4 - 16 - 0

trade price £3 - 6 - 8

your profit £1 - 8 - 7

plus an extra 5% on order for 6 or more

MURRAY HOUSE, VANDON STREET, LONDON, S.W.I TELEPHONE: SULLIVAN 5749

EVERY READER A POTENTIAL CUSTOMER Volume 176

NOVEMBER 4, 1961

No. 4264

Radioactivity Hazards

REPORT OF A "FALL-OUT PILL"

A STATEMENT that "a halfpenny pill which is on sale in every chemist's will offset the effects of iodine¹³¹" appeared in the *Daily Sketch* on October 26.

The statement stemmed from a letter written to the *Birmingham Post* by Mr. W. H. Bond (deputy director, department of radiotherapy, United Birmingham Hospitals), who considers that, in the event of the concentration in milk of I131 resulting from recent nuclear tests exceeding limits set by the Medical Research Council, a daily oral dosage of gr. 5 of sodium iodide or potassium iodide would be sufficient to "saturate" the thyroid gland with iodine, and so inhibit the absorption of I¹³¹. The Ministry of Health meanwhile has taken steps to ensure that infants up to one year of age shall be protected against list should its concentration in milk within the next week rise beyond the safety limits. Stocks of reconstituted milk in dried or evaporated form have been augmented at centres accessible to ocal health authorities, so that each infant will be provided with the equivalent of $1\frac{1}{2}$ pints of fresh milk each day, f necessary. In addition to the short-term hazards of I¹³¹ there are the less mmediate ones of strontium⁹⁰, caesium¹³⁷ and carbon¹⁴. According to the Medical Research Council, their deposition is likely to be greatest next spring. Radioactive caesium and earbon give rise to general irradiation of the oody, including the gonads. Strontium90, ooth because of its long half-life and the fact that it becomes concentrated in bone, causing prolonged irradiation of the bone and marrow, is regarded as he most important indicator of the possible total hazards to the individual. No plans have been announced in the United Kingdom to supplement foods as n Norway with calcium (which would displace strontium on the bone). However, regular measurements of adioactivity in rain, drinking-water, ood (including milk), air, soil, vegeta-

"And what about Mr. Enoch Powell's mean attack on the chemists' profits; is this in the national interest?"

"Factfinder" in the Stock Exchange Gazette

tion and human bone are continuing according to a country-wide programme under the supervision of the Medical Research Council and the Agricultural Research Council. They state that premature attempts to interpret the significance of individual early measurements directly in terms of human hazard can be "extremely misleading. Variations in the measurements are to be expected, both from day to day and as between one place and another. The significant factors are average levels over long periods of time." In order to obtain "a balanced view of the problem," the World Health Organisation has convened an expert committee on radiation to discuss "Radiation Hazards in Perspective."

Nielsen Drug Index

N.H.S. PAYMENTS AND TURNOVER

NATIONAL Health Service payments to chemists during the May-June period fell sharply from the March-April pcak and more than offset any gains in eash sales turnover and caused chemists' total turnover "to fall marginally below the March-April figure," states the Nielsen Drug Index Retailer Report. The average weekly turnover obtained by retail chemists during May and Junc was £5,178,000 which represented an increase of 5.8 per cent. over the corresponding period of last year. That was a smaller increase than was obtained during the three periods. The March-April figure was £5,221,000. The average weekly eash sales in retail pharmacies were:—Multiples, £368; large indecies were:—Multiples, £368; large independents £306; mcdium independents £167; small independents £91. pared with the corresponding figures of 1960 the increased percentage changes were:—Multiples 4.6; all independents 6.7. It was estimated that the multiple pharmacies obtained 37.4 per cent. of the total turnover during the period, whilst the large, medium and small independents obtained 26·1, 20·0 and 16·5 per cent. respectively. The average weekly National Health Service payments per shop were:—Large independents £165; multiples £132; medium independents £108; small independents £63. During May independent pharma-eies dispensed 68·2 per cent. of the National Health Service prescriptions

(an average of 1,044 per shop per month), whilst the multiple pharmacies dispensed 31.8 per cent. (an average of 1,487 per shop per month). National Health Service payments amounted to 25.7 per cent, of the total turnover in multiple pharmacies and 35.4 per cent, in independent pharmacies.

Conference 1962

DATE CHANGED TO AVOID CLASH

THE date of the 1962 British Pharmaceutical Conference at Liverpool has been changed from September 3 to September 10 in order to avoid a clash with the F.I.P. Conference at Vienna.

Foil Packaging

BIRMINGHAM ANALYST'S COMMENT

"INDIVIDUAL foil packing is usually regarded as an excellent means of preventing deterioration during normal shelf life, but a sample of sopacked "junior" aspirin tablets showed excessive aspirin decomposition, numerous crystals of free salicylic acid being evident on the surface of the tablets beneath the foil pack," states the Birmingham city analyst (Mr. A. H. Coombes) in his report for the second quarter of 1961. The report records that the free salicylic acid in the sample, expressed as a percentage of the total aspirin present, was 3·3 per cent. (B.P. permitted maximum is 0·16 per cent.). The analyst reports that stocks were withdrawn from sale and returned to the makers, and comments "better formulation of the product or an improvement in the foil sealing process was clearly essential." A sample of boric acid ointment was shown to contain 1·7 per cent, boric acid (B.P.C. limits 0·9-1·1 per cent.). "It was interesting to note," remarks Mr. Coombes, "that a specimen of that product of the same firm's manufac-



DISTINGUISHED VISITOR: Mr. Somine-Dolo (Minister of Health for the Republic of Mali) on a visit recently to the nutritional unit, Glaxo Laboratories, Ltd. On his left is Dr. T. F. Macrae (head of the research division, Greenford).

ture sampled at random in 1960 had been found to be deficient in boric acid. Obviously boric acid was settling out of the mass during the filling of the tins"; all stocks were returned to the manufacturer for investigation. Specimens of household cloudy ammonia and of sal volatile were both found to be deficient in ammonia.

Licensing Act, 1961

PROVISIONS IN FORCE NOVEMBER 1

AS from November 1 the permitted hours on weekdays in premises licensed for the sale of intoxicating liquor for consumption off the premises have been extended, and begin at 8.30 a.m. and end at the time at which permitted hours for licensed premises generally in the area end in the evening. There is now no afternoon break and offlicensed premises and off-sales departments are not required to open for the whole of the permitted hours. Procedural changes also introduced by the Licensing Act, 1961, also came into force on November 1, the most important of which is that there is provision for appeal to quarter sessions against the refusal of the licensing justices to grant a new licence, and anyone who has successfully opposed the grant of a licence before the licensing justices is now able to appeal to quarter sessions against the grant. It is also possible to make application for a new licence not only at the general annual licensing meeting but also at transfer sessions. Section 21 of the Act extends to sales made on off-licensed premises the prohibition of sales to a person under eighteen years of age. penalties for knowingly selling drink to an "under eighteen" are increased to a maximum of £25 on a first and £50 on a subsequent conviction. On a second or subsequent convictions of the licensee the licence may be forfeited.

Hospital Costs RETURNS FOR 1960-61

THE Ministry of Health has published "N.H.S. Hospital Costing Returns, Year Ended March 31, 1961. Part I" (H.M. Stationery Office, price 21s.) giving a cost summary showing the inpatient cost per week and, except for hospitals where patients remain for long periods, the cost per case, together with separate costs for wards and outpatients, including casualty departments. On average, costs per patient, per week, increased in 1960-61 by rather more than 8 per cent., of which the Ministry state some 6 per cent. could be accounted for by increased salary and wage rates, the cost of re-

ducing hours for nurses, increased prices and similar factors. The cost per case treated increased on average by some 6 per cent, indicating that the trend towards more intensive use of was continued. The average weekly cost for an in-patient in a London teaching hospital in 1960-61 was £39 7s. 4d. (£36 6s. 8d. in 1959-60); in the provinces the equivalent figure was £33 16s. (£30 14s, 11d.). The average cost per in-patient case in the London teaching hospitals was £89 4s. 7d. (£82 13s, 5d.) and in the provinces £61 0s, 5d. (£55 12s, 1d.). The national averages in non-teaching hospitals were: - Per in-patient week £27 13s, 6d. (£25 12s. 0d.); per in-patient case £53 19s. 9d. (£51 1s. 1d.). The returns also provide some details of the costs incurred for drugs, dressings and indirect dispensary expenses. Some of the information is included in the table at the foot of the page.

No Tax Incentives

PRONOUNCEMENT FOR EXPORTERS

THE possibility of some form of tax relief for exporters was turned down on October 25 by Sir Keith Joseph (Minister of State, Board of Trade). Speaking at the annual dinner of the British Chemical Plant Manufacturers' Association in London, Sir Keith said: "The Government has obviously carefully considered this proposal. added that it "undoubtedly would break international agreements. Other countries, particularly Germany, which did give an incentive of this kind to exporters, have by agreement with us abandoned it. More generally, we do not want to start on a course which other countries would undoubtedly follow, and from which we might lose more than we could ever hope to gain." In his speech, Sir Keith also said there was no permanent shelter for manufacturers at home. "In most lines if you can't sell your product abroad you soon will not be able to sell it at home either. The moral is to prove your own competitiveness and to increase your own profits and to spread your own overheads by selling abroad. Only this way will you protect your home market."

Import Duty Exemptions Additions to list from November 1

THE Import Duties (Temporary Exemptions) (No. 7) Order, 1961 (S.I. 2021), provides for the exemption from import duty from November 1 to January 1, 1963, of the following chemicals: 2:5 - Dichloro - 6 - methoxybenzoic acid, sodium 2:5-dichloro-6-methoxybenzoate, sodium 2:3:5-trichloro-6-

OUT-PATIENT PER ATTENDANCE IN-PATIENT, PER WEEK INDIRECT INDIRECT DRESS-DISPENS-DRESS-DISPENS-HOSPITAL DRUGS DRUGS INGS ARY **INGS** ARY CLASSIFICATION EXPENSES EXPENSES d. d. d. d. s. d. d. S_* S. S. 18 Type 1. Acute 6 4 7 1 6 5 4 Type 2. Mainly acute 15 4 3 8 6 -8 Type 3. Partly acute 9 2 3 0 2 1 1 5 5 5 6 Teaching Hospital, 7 5 2 5 4 7 Acute, London 24 6 6 6 Teaching Hospital, Acute, Provinces 24 5 6 11 6 11 1 4 5 4

methoxybenzoate, 2:3:5-trichloro - 6-methoxybenzoic acid, tetraethyl pyrophosphate, γ - (4-acetamidomethyl - 4-phenylpiperidino) - p-fluorobutyrophenone and 1-(3-cyano-3:3-diphenylpropyl) - 4-piperidinopiperidine - 4-carboxyamide. Another Order published as S.I. 2020, provides for the removal of the import duty chargeable on certain natural cork stoppers.

Colour Work on Show

SCHOLARSHIP HOLDERS' PHOTOGRAPHS

AN exhibition open to the public at Kodak House, Kingsway, London, W.C.2, from 9 a.m. to 5.15 p.m., November 1-3 and 6-8, shows thirty-six colour photographs chosen from the work of the six Kodak Colour Scholars for 1961, the third year of the company's colour scholarship scheme. The purpose of the scheme is to provide an opportunity for students of the right ability to study the techniques of colour photography in America, where advances have been in some respects greater than those in England, and ultimately to advance the standard of colour photography work in the United Kingdom. The students are selected by a panel of representatives from the Ministry of Education, Royal Photo-graphic Society, Institute of British Photographers, City and Guilds Institute and Federation of Master Process Engravers. During their three-month stay in America the selected students work in the various departments of the Eastman Kodak Co. concerned with colour photography. Among the subjects were noted a presentation of Houbigant's Chantilly perfume, an Alka-Seltzer group, as well as chemical installations,

IRISH NEWS

THE NORTH

Belfast Officers

PHARMACEUTICAL COMMITTEE ELECTIONS

MR. T. W. Currie was elected Chairman, Mr. W. Donaldson, Londonderry, Vicechairman, Mr. J. F. Rankin Hon. treasurer, Mr. W. Gorman Hon. secretary, and Miss A. E. Strachan Secretary for 1961-62 at a meeting of the Local Pharmaceutical Committee held in Belfast on October 26. The following members were re-elected for a further period of two years:—Belfast, Messrs. J. C. Acheson, W. H. Boyd; Londonderry, Mr. M. J. McDermott; Co. Antrim, Mr. W. S. Hall, Larne; Co. Armagh, Mr. J. R. Gass, Markethill; Co. Down, Mr. F. J. Sweeney, Newry; Co. Londonderry, Mr. J. H. White, Coleraine; Co. Tyrone, Mr. C. Anderson, Dungannon, Mr. J. J. Farrelly, Belfast, was co-opted to fill a vacancy created by the resignation of Mr. C. A. Quinn.

IRISH BREVITIES

THE REPUBLIC

A LECTURE on "Agfa and Colour Photography In Ireland" is being held under the auspices of the Irish branch of the Photographic Dealers' Association in the College of Pharmacy, Shrewsbury Road, Dublin, at 8.30 p.m. on November 24.

NEWS IN BRIEF

Mr. John Garnett has been appointed director for the Industrial Welfare Society.

DR. O. V. Baroyan (U.S.S.R.) has been appointed assistant director-general of the World Health Organisation.

A PLAG day in support of the Fleming Memorial Fund was held in London on October 31. The fund's first grant (£48,000) has been made to the Sir William Dunn School of Pathology, Oxford University.

AMENDMENTS to the conditions for the payment of travelling and subsistence allowances to members of Executive Councils were instituted on Octo-ber 1 by the National Health Service (Travelling Allowances, etc.) (No. 2) Regulations, 1961 (H.M. Stationery Regulations, Office, price fourpence).

Mr. J. S. Watkins (fertiliser products sales manager, Billingham division of Imperial Chemical Industries, Ltd.), has been elected President of the Fertiliser Manufacturers' Association and Mr. Thomas Williams (chairman and managing director, Eaglescliffe Chemical Co., Ltd.), Vice-president.

ONE of the effects of the Anthrax Prevention (Goat Hair and Shaving Brushes) Order, 1961 (S.I. 2040), published on October 30, is to limit the prohibition on the importation of Japanese shaving brushes—at present a complete exclusion—to those made of animal hair. November 7. The Order operates from

THE Welfare Foods (Great Britain) Amendment (No. 2) Order, 1961 (H.M. Stationery Office, price threepence) enables the Health Departments to provide under the Welfare Foods Scheme for infants under one year old additional supplies of National dried milk or supplies of any other form of processed milk.

Types of food that "promote growth, vitality, activity and warmth" are shown in a brightly coloured wall sheet issued to local health authorities in England and Wales by the Ministry of Health. Clinics where the posters are displayed are also being provided with leaflets that indicate the combinations of different foods which produce a balanced diet.

THE Minister of Health and the Joint Under-Secretary of State, Scottish Office, met a deputation from the Staff Side of the National Health Service General Whitley Council on October 25. The deputation gave detailed reasons for its objections to the applica-tion to the Health Service of the Government's pay "pause" policy. The Ministers in reply explained their policy and answered a number of practical questions put by the deputation.

SPORT

Golf. - South London and Surrey Pharma-CISTS' GOLFING SOCIETY, at Tandridge golf club, on October 25. Thirty-two members participated a Stableford Competition, Results: 1, A. V. Hall (Banstead Downs), 38 points; 2, G. E. Philp (Langley Park), 37 points; 3, G. Stanton (Royal Blackheath), 35 points. Best score on first 9 holes, 1, E. Foster (Coulsdon); Best score on last 9 holes, D. Spier (Shirley Park); Eighteen and over handicap prize, A. Wilson (Croham Hurst), 32 points.

TOPICAL REFLECTIONS

By Xrayser

Identification

How much of the practice of medicine should remain a mystery? Is it desirable, on every occasion on which a direct question is asked, that the doctor should reveal all that he knows of a patient's condition? There are widely divergent opinions on the question, and it is obviously impossible to generalise. In the same way it is not possible to lay down hard and fast rules for the labelling of dispensed medicines with a full disclosure of their contents. There are occasions when no harm can be done by such revelation. There are probably more occasions when, while there is no harm, it is difficult to see what possible purpose is served by laboriously transcribing a patent name or formula on a label—a name that conveys nothing to the patient. For whom, then, is the information useful? The discussion that took place at a meeting of doctors and pharmacists in London (p. 468) suggested that doctors are more anxious to see routine disclosure than are pharmacists. It must be confessed, however, that the pharmacist who, from conviction and practice, has dedicated himself to the principle of nondisclosure, has been fighting a losing battle, for some manufacturers render his traditional practice in that direction an extremely difficult one. Medicine and surgery have become extremely popular with the public in an age in which millions of people vicariously take part in dramatic moments in hospital life through the medium of television. Despite that, I cannot subscribe to the need for all medicines being labelled with their contents as a matter of routine. I can appreciate that there are occasions when it may be desirable, and there seems a good case for a nice discrimination in the use of the magic letters "N.P." Medicine and magic have been associated through the centuries, and it is difficult to foresee the time when, no matter how exact a science medicine becomes, there will not be patients whose recovery is not expedited or enhanced by a judicious application of art.

Mental outlook

In the course of one of the professional sessions at the Portsmouth Conference, the chairman (Mr. H. S. Grainger) said that it was his own feeling as a hospital pharmacist that, fundamentally, there was a difference of mental outlook between pharmacists practising in retail and those practising in other branches. When a person came into the shop, Mr. Grainger asked, did the pharmacist regard that person primarily as a patient needing advice and professional services, or primarily as a customer? The approach is not simple in retail, for the person looking most in need of advice and professional services may only want a lipstick. That is inherent in the mixed character of retail pharmacy today, but I think that, when the transaction at the counter calls for the use of professional advice and service, it will be found that the pharmacist who practises in a shop is in no way at a disadvantage compared with his colleague in the hospital. What Mr. Grainger calls the "pharmacist-patient-psychology" is not unknown between chemist and customer. I should have described it rather as an atmosphere of mutual respect which has been fostered through many years of personal service. Such an association grows slowly, but it blossoms into a lasting relationship, which is the better for its being natural. The devoted and respected retail pharmacist is a valued member of the community.

History of medicine

The paper on Boerhaave and the place of chemistry in medicine in the eighteenth century (p. 483), given before the second British Congress on the History of Pharmacy and Medicine, presented its reader Dr. F. W. Gibbs with a subject that might well have occupied the whole three days of the Conference. In considering the number of students from this country who passed through the hands of that distinguished teacher at Leyden, it is of interest to record that Boerhaave himself was a pupil at the same university. His teacher was a Scot—doctor, mathematician and Latin scholar called Alexander Pitcairne, who returned to his native country and made Edinburgh a centre of medical culture.

Centenary Dinner at Hove

BRIGHTON AND HOVE ASSOCIATION CELEBRATES

THOUGH Brighton and Hove Association of Pharmacy has been tardier than some to appoint a woman president, it made honourable amends by electing a woman president in its centenary year. Whether that act was one of chivalry or of equity depends on the point of view, but all present would acknowledge that Miss Mary Burkitt performed the presidential functions with as much charm as efficiency when she officiated at the Association's centenary dinner in Hove on October 18.

Proposer of the toast of the Association was HIS HONOUR JUDGE HAROLD Brown, Q.C., who had it in common with pharmacists, he said, that judges were enjoined "to dispense justice indifferently "-unlike, differently "-unlike, however, the chemist who advertised "we dispense with accuracy." He noted that the start of the Association had been an excursion of local chemists "into the country" and that are afternoon of the country and that are afternoon of the country and that are afternoon of the country and the country are also the country and the country are also the cou and that one of its objects had been "the improvement and advance-ment of the body." Whilst everybody in any walk of life must have regard to purely selfish problems, the point of such an association was that it put in the foreground the public good and indeed was no longer worthy if it lost sight of that purpose. That the Asso-ciation had had only four presidents between 1861 and 1922 must surely be a record in longevity.

In her response to the toast the president welcomed the Association's many friends present. She was proud of its history and that some members had achieved national and even international fame. It was honoured by the interest always taken in its affairs by the mayors of the twin boroughs. Among those present to whom Miss Burkitt gave a special welcome were the chairmen of the Brighton and Mid-Sussex Branches of the British Medical and British Dental Associations and the oldest practising member of their own Association: Mr. A. N. Hocking, with whom was Mrs. Hocking.

Congratulations from the Duke

During the evening telegrams of congratulation from the Duke of Edinburgh and of good wishes from the Portsmouth Branch, from Mr. and Mrs. James Bloomfield and from Mrs. Roberts "and other convalescents in Birdsgrove House" were read, and the Association's annual award for forensic pharmacy was presented to student Mr. T. J. Fordham (his choice: "Vogel on Chemical Analysis ").

A feature of the dinner, which was followed by dancing, was the issue to each guest at table of a brochure giving a history of the Association and notes on pharmaceutical personalities and businesses in Brighton and Hove. In the brochure was a full-page illustration of the floral clock laid out in Palmeira Square, Hove, by the Hove Corporation, with the inscription, also in flowers: "Brighton and Hove Association of Pharmacy 1861-1961

The Association, as pointed out in the brochure, is the sixth oldest chemists' organisation in Great Britain, its

predecessors being Aberdeen (1839). Bath (1842), Bristol (1847), Liverpool (1849) and Glasgow (1854). Efforts had been made to bring local chemists together for social purposes, but in 1861 it was thought that something "more intellectual" was necded. In a round of calls on local chemists, thirtyfour were enrolled.

The first president was T. A. Drew, and the treasurer J. T. Gwatkin. The first committee included a Cornish, a Glaisyer and a Savage, names to be intimately identified with future Asso-

ciation work.

Mr. Drew was succeeded by Mr. W. D. Savage as president of the Association. Mr. Savage was one of the founders of the Pharmaceutical Society, and was for twenty-eight years a member of the Society's Council, and for three years its vice-president.

Monthly meetings were held at the residence of the president, who for thirty-three consecutive terms Savage, immediate successor of the founder president. In 1865 the Association made arrangements with the Brighton College for the institution of a class in chemistry students of pharmacy, and took the initiative in having a course for the "Minor" set up in 1897 in the local school of science and technology. Until 1910 the Association earried on a buying club "which, in the year 1908, did £2,000 worth of business. In 1912, at the instance of the Association, an application was made for an early closing order, not then granted but obtained later. Pending the order, local

chemists voluntarily agreed to keep to the closing time which the order would make enforceable. The Association took an active part in discussions on the National Health Insurance Bill, 1911, and made many helpful suggestions. The British Physical Ph tions. The British Pharmaceutical Conference met in Brighton in 1927, with Mr. John Plowright as chairman of the Conference Local Committee.

Claims to Distinction

In the early years of the 1939-45 war, the Association's secretary (Mr. Arch. Wilson), with the president (Mr. V. Brumwell) and other members of the committee, after discussion with others responsible for the salvage of stock in damaged or destroyed premises, and appreciating that the salvage of drugs, ehemicals and other pharmaceutical material presented special hazards and required expert knowledge, formulated a scheme and developed a suitable operational structure to undertake the salvage of drug stocks in damaged or destroyed premises. At a later date an emergency pharmaceutical service was developed and in 1942 Mr. Donald Hudson was appointed co-ordination officer to develop and maintain all emergency services provided by local pharmacists. As a result of that work the Brighton 1942 Committee was born. Brighton was also the venue for the first meeting in Britain of the bureau of the Fédération International Pharmaceutique, and of the first Franco-British Pharmaceutical Congress to be held in either country.

IRISH CHEMISTS' GOLFING SOCIETY

End-of-season supper at Clontarf

MORE than eighty members and friends of the Irish Chemists' Golfing Society sat down to a supper at Clontarf golf clubhouse on October 18 after the final outing of the season, the president (Mr. Phil. Fahey) in the chair. The gathering was followed by a smoking concert. Proposing the health of the guests, the president said he was pleased with the turn out, which he interpreted as a worthy tribute to the two hard-working officers, Messrs. J. Foley and J. Lynch who had made the season such a successful one. Welcoming the representatives of the Ulster Chemists' Association, he said they could rest assured that they would be always welcome at their functions. He also welcomed Mr. P. Corrigan as vice-captain of Clontarf Club; and officers, Mr. S. Dillon and Mr. P. Murphy. Replying, Mr. Boyd urged the Society to assist revive the B.D.H. Cup competitions between the Ulster chemists and the golfers south of the border, which had provided great annual contests at Dundalk.

Mr. A. C. Hennessy (president, Irish Drug Association) said it was wonderful to see the unity which had existed between pharmacists on both sides of the border, both in business and sport. He added that he was glad to see an

infusion of young blood in the Society and joined with Mr. Boyd in asking to have the B.D.H. cup revived.

Mr. J. Holland, proposing the health of the captain, said the fact that their outings had been better than ever this year was due in no small measure to

Messrs. Foley and Lynch, Mr. Foley had proved "an ideal captain."

Replying, Mr. Foley said the season had provided "fourteen splendid days' golf in a lovely social atmosphere," and he did not think they could ask for more. He proposed a vote of thanks to the firms who had donated prizes during the season and said that the members had striven hard to win them. In a tribute to Mr. Lynch he said he had put a tremendous amount of work into making the season a success. Regarding the president, he said that he had always been available with help The Society were advice. wealthicr by having such a president who had acted as secretary for seven-teen years. The prize which he put up each year was always the most soughtafter. One of the reasons the Society was one of the most successful clubs in Ireland was because they had such a fine president and secretary.

The prizes were presented to the winners by Mr. Lynch.



COMPANY NEWS

Previous year's figures in parentheses

EVANS MEDICAL, LTD. — Dr. E. M. Glaser has been appointed director of research.

ILFORD, LTD.—Mr. S. T. Ferris (general sales manager) has been appointed a director.

FARBENFABRIKEN BAYER, A.G., Leverkusen, Germany.—Dr. K. Hansen has been appointed chairman of the board of management following the recent death of Dr. U. Haberland.

AMERICAN CYANAMID CO., LTD.—Third quarter sales were \$146,606,000, about 7 per cent. higher than in the same period last year. Net earnings for the third quarter were \$11,098,000 (\$8,533,000).

BRITISH ALKALOIDS, LTD.—An interim dividend of 1.2d. per share less income tax (same) on the issued Ordinary capital of the company for the year ending March 31, payable to all shareholders on the register on October 27. The directors report that sales show an improvement for the half year to September 30, compared with those for the same six months of 1960.

CAMBRIDGE INSTRUMENT CO., LTD., announce final agreement for the formation, with Istrumenti di Misura, C.G.S., S.p.A., Monza, Italy, of a new joint company, Cambridge-C.G.S., S.p.A. The issued capital of the new company, in which each parent organisation has an equal interest. will be 300 million lire. The factory will be located at Casoria, nr. Naples.

LAPORTE INDUSTRIES, LTD.—
Messrs. T. E. Peacock and A. C.
Nicholson (joint managing directors,
Laporte Acids, Ltd.) have been appointed directors of James Wilkinson &
Son, Ltd., the Laporte group company
specialising in aqueous hydrofluoric
acid and inorganic fluorine compounds.
Mr. Nicholson has also been appointed
a director of the Sheffield Chemical
Co. (another company in the group).

ASSOCIATED CHEMICAL CO.S, LTD.—Mr. C. L. Evans has been transferred to be managing director—production and technical, of A.C.C. (Fertilisers), Ltd., relinquishing his position as a managing director of A.C.C. (Brotherton), Ltd. Mr. T. Williams has been appointed managing director—commercial, of A.C.C. (Fertilisers), Ltd. Mr. F. Nicoll has been appointed production director of A.C.C. (Brotherton), Ltd.

UNITED STATES BORAX AND CHEMICAL CORPORATION.—Sales for the year ended September 30 were \$67,811,320 (\$66.654,174). While net income for the 1961 financial year fell 8 per cent. below profits for 1960, earnings for the fourth quarter were 19 per cent. higher than for the same period of 1960. For the full year ended September 30, unaudited net income was \$6,387.249 compared with earnings of \$6,920,209 for the previous year.

SCHIMMEL BOEHM, LTD.—Formerly jointly owned by Schimmel & Co., Inc., New York, and Fredk. Boehm, Ltd., Bentinck Street, London,

W.1, has now been taken over by Schimmel & Co., Inc., New York. The Fredk. Boehm, Ltd., directors, Messrs. H. R. Acton, P. E. Kunzer and J. A. Clark, resigned from the board on November 1, Mr. Clark has been appointed managing director, and Mr. J. A. Stilwell (U.S.A.), and Mr. Gert Keller (U.S.A.), also remain with the company as co-directors. All purchasing for Schimmel Boehm, Ltd., formerly made by Fredk. Boehm, Ltd., will be undertaken by Schimmel Boehm, Ltd. New offices, laboratories and factory premises are being negotiated for.

THREE HANDS, LTD.—The board intends to recommend an increase in the authorised capital to £500,000 and recommends the creation of a new class of Preferred A Ordinary shares which will rank pari passu in all respects with the existing Ordinary shares except that they will be entitled to a dividend of $7\frac{1}{2}$ per cent. before the Ordinary become entitled to a dividend and they will carry no voting rights. It has been decided to recommend the issue, by way of capitalisation of reserves, of 750,000 new 2s. Preferred A Ordinary shares to be issued to Ordinary shareholders on the basis of one for one. A $7\frac{1}{2}$ per cent. interim dividend is announced. The new shares will not qualify for the interim dividend but it is anticipated that a further dividend of not less than $7\frac{1}{2}$ on the total issued capital will be recommended when the year's results are known. The profits for the period to Sentember 20 show a satisfactory improvement over the corresponding period of last year and the board is confident that the net profits for the year, subject only to taxation. will reach the figure of at least £100,000 previously forecast.

Voluntary Liquidation

BRYTEN PRODUCTS, LTD., manufacturing chemists (R.O.), Nettlefold Works, Nettlefold Place, London, S.E.27. Liquidator: Jack Newman, F.C.A., Brighton Road, Sutton, Surrey.

BUSINESS CHANGES

M. & G. GREEN, LTD., have taken over the pharmacy of J. P. Wellington, 29 Ebury Bridge Road, Victoria, London, S.W.1.

MEDICO-BIOLOGICAL LABORA-TORIES, LTD., have removed to 12 Carlisle Road, London, N.W.9.

THE telephone number of F. W. Hampshire & Co., Ltd., Sunnydale, Derby, has been changed to Derby 21234.

MR. W. J. MELLIS, F.P.S., has acquired the pharmacy of Mr. B. Malaney, M.P.S., 10 Old Hall Road, Gatley, Cheadle, Ches.

JOHN HARLEY, LTD., have acquired the pharmacy of Harvey & Co., 37 Old Brompton Road, London, S.W.7.

BOOTS, LTD., are transferring their pharmacy at 5 New Market, Beccles, to nearby Exchange Square, for a temporary period while rebuilding is carried out.

ROUSSEL LABORATORIES, LTD., have formed a separate company in

New Zealand to be known as Roussel (New Zealand), Ltd. Directors include: Mr. J.-C. Roussel (chairman), Mr. J. G. Machizaud (managing director, Roussel Laboratories, Ltd.), and Mr. J. T. Hook (local representative).

Appointments

DOMESTOS, LTD., have appointed Mr. J. Whaley area manager of the company's Manchester branch.

VINYL PRODUCTS, LTD., Butter Hill, Carshalton, Surrey, have appointed Mr. G. E. J. Reynolds, B.Sc., A.R.C.S., F.R.I.C., their research manager.

WALLACE LABORATORIES, Maple Cross, Rickmansworth, Herts, have appointed the following regional executives: Mr. A. L. Howe, M.P.S. (for Northern region); Mr. B. A. Weightman, M.P.S. (Midland); Mr. S. Phillips (Southern); Mr. P. McWilliam (Scotland).

QUICKFIT & QUARTZ, LTD., Stone Staffs, have appointed Mr. Rod Mackenzie an overseas representative. Mr. Mackenzie is at present on a tour of Denmark; he will work in English and French-speaking territories throughout the world. During 1962 he will visit France and the Middle East.

DISTILLERS CO. (BIOCHEMICALS), LTD., London, S.W.19, announce the appointment of the following representatives:—Merseyside, Mr. P. S. Callow, M.P.S.; East Lancashire, Mr. R. A. Fletcher, B.Sc., M.P.S.; North-west London, Mr. J. F. Harman; South-west Scotland, Mr. W. M. R. Henderson; South Yorkshire and Lindsey, Mr. T. M. Kember, B.Sc., M.P.S.; North-east London and Cambridgeshire, Mr. R. C. King; West Lancashire, Mr. C. H. Marsland; Part of Middlesex, Mr. A. E. Oliver; South-east London and West Kent, Mr. P. A. Solly; Derbyshire and Potteries, Mr. F. R. Storer; North Durham, Mr. L. G. Stuart; North-east Scotland, Mr. J. C. Thomson; West Surrey, Mr. J. A. Wrathall.—Mr. D. T. Rossitter (formerly sales office manager at Wimbledon) has been appointed the company's commercial intelligence officer.

DEATHS

HALL.—On October 20, Mr. Harry Newman Hall, M.P.S., 6 Fothergill Street, Colne, Lancs. Mr. Hall, who qualified in 1921 was a director of Arthur Duckworth, Ltd., 97 Albert Road, Colne, Lancs.

HOLLAND.—On October 16, Mr. Geoffrey Iredale Holland, M.P.S., 157 Portland Road, Edgbaston, Birmingham, 16, aged seventy-six.

McRAE.—On October 18, Mr. Ninian Finlayson McRae, M.P.S., 48 Preston Road, Leytonstone, London, E.11, aged seventy-six.

MILLS.—On October 16, Mr. Albert Edward Mills, 30 Charlton Road, Keynsham, near Bristol. Mr. Mills qualified as a chemist and druggist in 1912. He was formerly principal of Mills & Mills, Bath and Keynsham.

WILKIE. — On October 22, Mr. Charles Wilkie, M.P.S., 55 John Street, Dunoon, Argylls. Mr. Wilkie qualified in 1927.

"A Revolution in World Trade"

SETTING UP INDUSTRIES IN UNDERDEVELOPED COUNTRIES

MANAGEMENT must recognise that a revolution in world trade was now taking place because of the drive to put up standards of living in the under-developed countries, said Mr. S. P. CHAMBERS (chairman, Imperial Chemical Industries, Ltd.), in his opening address to the British Institute of Management's National Conference at Torquay on October 24. Exporters from Britain of many traditional products would have a hard time, he said, and home sales, too, would be affected if the goods from the hitherto underdeveloped countries were to come in freely.

Certain industries or sections of industries, in which wages represented a large proportion of total costs, and whose transport costs were low, might well concentrate their future development programmes in territories where labour costs were low. On the other hand some industries required high technical standards, expensive research, the investment of large sums on capital equipment and the proximity of other sections of industry, both as feeders of materials and as users of products—as for instance some sections of the chemical industry. In those sectors of industry wage costs, though not immaterial, were less important than technical efficiency and being ahead of competitors in the development of new products, variants of existing products and new processes. Those sections were likely to remain in the highly industrialised countries.

Whether to contract or to expand, whether to make new products, and how and where to make them, called for economic and political information. that connection Mr. Chambers pleaded for co-operation of firms when information was sought by various bodies. "However tiresome those re-quests for information may seem at the time, it may better serve the nar-rower interest of the firm to take a wider view of the public interest," he

Although progress had been made in the British economy over the past ten years, there were still considerable problems to be faced because of the narrow foreign-exchange reserves and consequent difficulty of maintaining progress without causing a foreign-exchange crisis. Increased productivity had not kept up with increased con-sumption, and a 21 per cent. increase in exports had been out-distanced by a 50 per cent. increase in imports. What was even more significant to the United Kingdom was the fact that invisible earnings no longer made up the gap between imports and exports. The Government could, he said, help or hinder progress by its legislation. As an example, Mr. Chambers instanced the fuel-oil tax recently imposed "so that the National Coal Board can keep uneconomic pits working for longer than could be justified on economic grounds."
He went on "One is left wondering whether Ministers who do this realise that these actions, which put up costs in industries engaged in exports, do real

damage at a time when exhortations are ineffective. . .

Freer trade between Britain and Continental Europe would improve the prospects of the live and efficient business. The less efficient would suffer by

the removal of protection but the net result would be a reduction of costs and improve the competitiveness of British industry in Europe and the prospects for British exports outside Europe.

Essentials of Overseas Trading

THE need for British companies to set up local manufacturing units overseas was again stressed by MR. E. P. God-F.P.S. (managing DEN. director. Beecham Overseas, Ltd.), when he addressed a sectional meeting of the conference on "The Essentials of Overseas Trading Today." Mr. Godden said "We have to be proposed to be held "We have to be prepared to be bold and embark on local manufacturing operations in countries abroad." Indeed. today there were many countries where that was absolutely necessary for they themselves were simply not in a position to afford the foreign exchange required to import large quantities of foreign made finished goods. together with their desire to increase the standard of living and give work to their own people, frequently precluded import of anything that was not essential. A revolution in selling was going on throughout the world in the retailers' stores, in the minds of manufacturers and all those engaged in the distributive trades, and most important of all in the mind of every consumer whether she were a housewife or a big industrial buyer. It was no longer sufficient simply to make available. Retail shops for many years had been points of availability, with different types of shops specialising in different types of things, and the consumer generally had had to hunt them out. The shops were frequently dingy, dirty and not well organised. All that was changing as a result of the growth of self-service stores and supermarkets. "Shopping

is becoming much less of a chore and much more of a pleasure for the housewife consumer. She is much more able to be selective. Brands must compete for her attention by the excellence of their quality and the excellence of their packaging, by the terms on which they are offered, their prices, the discount for buying double or triple the quan-

tity, etc."

Mr. Godden said that, in overseas trading, too, it was no longer sufficient to make British goods available on traditional British terms of credit and with traditional British delivery dates. The world was fast becoming a supermarket and "regretfully we are being crowded off the shelves.'

Though there were exceptions, and notable exceptions, the fact remained that a clear image had emerged that, in general, British goods were not designed or formulated with overseas consumers in mind. Frequently, for non-consumer goods, delivery dates were longer than anyone else's and credit terms poorer. Packaging and packing were not always up to standard, and advertising and publicity left much to be desired. Important as all those things had been over the past ten years they were going to be even more important over the next ten. Britain must or would join the Common Market.

What remained of traditional Imperial, Colonial and Commonwealth markets must ultimately diminish, and Britain more and more would have to fight

harder for overseas trade.

A European on British Marketing Methods

A EUROPEAN'S view of British marketing methods in Western Europe was put by Mr. E. TERSLING (chairman, British Import Union, Copenhagen). Except in Western Germany, he said, the share of imports enjoyed by the United Kingdom in selected European countries had declined over the years 1953-60 by $\frac{1}{6}$ to $\frac{1}{3}$ as follows:-

		1953	1960
		per cent.	per cent.
Austria		5.8	4.9
Belgium-	ĺ		
Luxembourg		9.0	7.5
Denmark		29.0 .	19.0
France		4.6	3.7
Germany (F.R.)		4.0	4.6
Italy		7.7	5.3
Netherlands		9.4	6.9
Norway		20.9	15.0
Portugal		15.3	11.9
Sweden		16.4	13.1
Switzerland		6.7	5.9

Suggestions made by Mr. Tersling to exporters included maintaining regular supplies; limiting export production to a fraction of overall capacity and sticking to that rather than leaving the foreign markets with a possible over-flow in slack times on the home market. Prices must be competitive. In a recent Danish survey three out of every five importers replying felt British prices to be a liability, while only one out of seven found them an asset.

British packing costs were thought by many importers to be too high.

The long delivery times had for a good many years been considered a heavy liability for British industry, and unkept delivery times were all too frequent. Complaints against the slowness in answering letters on the part of British exporters were often justified. Some highly efficient British exporters had avoided the pitfalls mentioned, but many companies had not, hence the disappointing performance of U.K. trade as shown in the table. The home market would become less tempting in the next decade, and the rapidly ex-panding Continental markets would become more so.

TRADE NOTES

A Larger Size.—Reckitt & Sons, Ltd., Hull, are marketing an additional larger size of Nulis cream.



The Hico-Climamask used by sufferers from bronehitis, eatarrh, etc., for inhaling warm dry air, Suppliers: Hirtz & Co., Ltd., Murray House, Vandon Street, London, S.W.I. The company's announcement on another page includes a figure for chemist's profit, The reason it does not coincide with the difference between retail and trade prices is that ninepence purchase tax is chargeable on one of the ingredients.

As Tablets Only.—Ward, Blenkinsop & Co., Ltd., Fulton Road, Wembley, Middlesex, point out that their chilblain remedy Gon is available as tablets only [corrected note].

Creams in Bulk.—Stafford Allen & Sons, Ltd., Wharf Road, London, N.1, undertake the bulk manufacture, and packaging for wholesale distribution of, finely milled ointments and creams.

Upward Sales Curve.—Newspapers and magazines continue to devote many column inches to the subject of slimming, and Beecham Pharmaceuticals, Ltd., St. Helens, Lancs, suggest that the trend, following American medical opinion, has hardened somewhat against those slimming foods that totally replace ordinary diet. The swing, in consequence, is probably back towards preparations that aid the slimmer to lose weight whilst enjoying a balanced and natural diet. Of those the company's Formula 21, recently improved in texture and flavour, and based on methyl cellulose, certainly reports a marginal increase in sales, despite the introduction of a number of new competitors.

Bonus Offers

THORNTON & ROSS, LTD., Linthwaite Laboratories, Huddersfield. Vi-Lan lanolin cream. Twelve invoiced as eleven.

SALES STORY OF A SHAMPOO

How and why the "Two-step" product was developed

"THE shampoo market has increased nearly two-and-a-half times in the past ten years to over £12 million's value at retail selling prices." Salesmen of D. & W. Gibbs, Ltd., were told that at a recent sales conference to launch the company's "Two-Step" shampoo. The development director (Mike Moss) said that each major increase in the size of the market had coincided with a launch of a major product. "Two-Step," backed by one of the heaviest-ever shampoo launch campaigns, using both television and colour advertising in magazines, was a big stimulus to further expansion. While women were becoming more hair-conscious, and so buying more shampoo, they were faced with a problem. A shampoo with a detergent level high enough to remove all dirt rendered the hair dry and unmanageable, and largely obviated the effectiveness of conditioning additives such as lanolin. Lower detergent levels, while leaving the hair progressively less frizzy, did not, said Mr. Moss, cleanse thoroughly, even with two latherings. Thus existing single-formulation shampoos offered a compro-mise between cleanness and manageability. Though women showed an increasing preference for liquid shampoos (now estimated at 80 per cent. of the market) they frequently switched brands in search of a shampoo that ful-filled both needs. "As there is no single formula that will do two jobs, we had to develop two liquid formulas and package them in the same container. The first formula of "Two-Step," the first two-in-one shampoo, was strongly detergent; the second, with its lanolin

content, gently removed any remaining dirt while retaining some of the natural oils. It also conditioned the hair with lanolin to leave it lustrous and manageable. To ensure that the new product was used in the right way, as two applications of one shampoo, unique twin cavity bottles and twin PVC sachets had been produced. They were easy to stack and, with their two-colour liquids, attractive to display. "Two-Step has been developed" Mike Moss concluded "to provide what women want—really clean and manageable hair. Because of our big campaign and because of the pack—certainly the most dramatic and eyecatching produced for any shampoo—women will buy Two-Step. Because it is what they want they will go on buying it. That means a substantial profit line for both the retailer and ourselves."

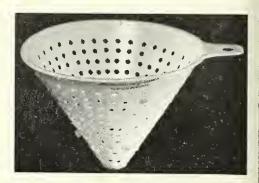


The specially designed bottle shown (left) as produced by the bottle manufacturers and (right) complete with eap, label and contents.

INSTRUMENTS AND APPARATUS

Laboratory Suppliers. — A list of members of the British Laboratory Ware Association, Ltd., may be obtained from the Association's office at 28 Worple Road, Wimbledon, London, S.W.19. The membership includes manufacturers of specialist apparatus, stockists and distributors, and the Association provides the link between suppliers and users of laboratory ware and materials.

A Patent Filter Funnel.—When an ordinary filter funnel is used the filter paper becomes we't, adheres to the sides of the funnel and allows filtration to take place only from the bottom of the



cone. The Adelphi-Pett funnel, a modification of an ordinary polythene conical funnel, enables filtration to take place over most of the surface of the filter paper, ensuring a rate of filtration many times that obtained by the normal method. The funnel, which is manufactured by Adelphi Manufacturing Co., Ltd., 20 Duncan Terrace, London, N.1, is easy to operate and to clean, and can be used inside any normal funnel of 6 in. diameter or over.

Eye Wash Bottle.—For instant application of an eye wash in an emergency in works or laboratory Loughborough Glass Co., Ltd., Lough-



borough, Leics, offer a polythene bottle which, when squeezed, directs into the eye, via a polythene eye bath, a dispersed spray from the 750-mil content of the bottle. Replacement air is vented into the bottle through a valve below the eye bath which, when not in use, is covered by a dust cap.

INFORMATION WANTED

Larchege ointment Workaline (a veterinary preparation) Blnahar, Ltd. (present address)

NEW PRODUCTS AND PACKS

Relief in Spasticity.—Duncan, Flockhart & Co., Ltd., Wheatfield Road, Edinburgh, 11, announce the availability of a new speciality Tiglyssin brand tigloidine issued in container of 100 250-mgm. tablets. The product is for the symptomatic relief of spasticity.

A Product Against Night Cramp.— International Laboratories, Ltd., Hook Road, Chessington, Surrey, have launched a new product against night cramp: Crampex. Each pack contains eight tablets in foil. Dosage is one or two tablets daily.

A Treatment for Angina.—The rationale of Perifenil, a new speciality of William R. Warner & Co., Ltd., Eastleigh, Hants, is that Peritrate (pentaerythritol tetranitrate) increases coronary blood flow, and that Nardil (phenelzine), while having a similar cardiac effect, also relieves the psychological overlay present in many angina patients. The product is presented as light-blue sugar-coated tablets in bottles of 100 and 500.

"Four-way" Cough Relief.—A new speciality Diltron marketed by British Alkaloids, Ltd., Pinners Hall, Great Winchester Street, London, E.C.2, incorporates pholocodine as suppressant, T.C.P. for antibacterial action, plus expectorant and demulcent ingredients. The preparation replaces T.C.P. bronchial antidote. The pack is a 2-oz. bottle in carton that includes a measuring spoon; a display outer holds six. Diltron is being widely advertised.

A Dispensing Pack. — Meeting requests for a pack of Villescon liquid larger than the 4-oz. bottle so far marketed, Pfizer, Ltd., Sandwich, Kent, as United Kingdom representatives of C. H. Boehringer Sohn, Ingelheim-on-Rhine, West Germany, announce a dispensing pack holding 40 fl. oz. The trade price (excluding purchase tax) of 4 fl. oz. of Villescon liquid dispensed from a 40 fl. oz. bottle is 3s, 6d., which is $27\frac{1}{2}$ per cent. cheaper than the trade price of a-4 fl. oz. bottle.

An Anaesthetic in New Strengths.—Astra-Hewlett, Ltd., King George's Avenue, Watford, Herts, announce the introduction of new strengths of Xylocaine (lignocaine hydrochloride) solutions with adrenaline (1:200,000) for injection. The new strengths are 0.5, 1 and 2 per cent. in packs of six 20-mil vials, and 1 per cent. in vial of 50 mils. The manufacturers also announce the introduction of 30-gm. tubes of Xylocaine ointment and of Xylodase lignocaine and hyaluronidase ointment.

Anxiety-relieving Analgesic. — John Wyeth & Brother, Ltd., Clifton House. Euston Road, London, N.W.1, announce the introduction of Equagesic tablets—a new analgesic preparation combining in each tablet 75 mgm. of ethoheptazine citrate, 150 mgm. of meprobamate. 250 mgm. of acetylsalicylic acid, and 75 mgm. of calcium carbonate. Equagesic is claimed both to relieve pain safely and to relieve the apprehension and anxiety that accompany it "and the attendant muscle tension that so often adds pain to pain." Equagesic is presented in bottles of ten and 100 tablets.

Now to be Had as Tablets.—Parke, Davis & Co., Staines Road, Hounslow, Middlesex, announce the availability in compressed tablets of their single-dose oxyuricide Vanquin (viprynium embonate, P.D. & Co.). Vanquin tablets are orange sugar-coated tablets, each of which contains the equivalent of 50 mgm. of viprynium base. One tablet is equivalent to one 5-mil teaspoonful of Vanquin suspension. Because of their staining quality the tablets should be swallowed immediately without chewing. They are available in bottles of eight and 100.

An Antibiotic Cream.—Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, announce the introduction of a new speciality Soframycin cream, "an entirely new presentation of Soframycin for topical application." Soframycin cream contains 1.5 per cent, of Soframycin and 0.005 per cent, gramicidin in "a unique milky vehicle which by its unusual high fluidity combines the advantages of cream and lotion." Soframycin cream is indicated in all bacterial skin infections, both primary and secondary, and is packed in a 15-gm, plastic squeeze-bottle.



TWO SIZES—WITH DISPLAY OUTER: Cartons, containers and display outers in which Miles Laboratories, Ltd., Stoke Court, Stoke Poges, Bucks, are sending out their new universal-appeal sedative Nervessa (see C. & D., October 28, p. 472). Initially the product is being marketed through chemists in the Greater London area.

A New Oral Penicillin.—The Distillers Co. (Biochemicals), Ltd., The Broadway, London, S.W.19, announce the introduction of a new speciality Penspek, 'a product of original research, claimed the most efficient oral penicillin available to date for the treatment of common Gram-positive infections. Tablets of one strength only, and granules for preparation of a paediatric syrup, are available. Each tablet contains the equivalent of 125 mgm. of α -phenoxybenzylpenicillin as the potassium salt, and each large teaspoonful (5 mils) of syrup the equivalent of 62.5 mgm. Penspek is stated to possess the following advantages over other acid-stable oral penicillins: that it is better absorbed, giving higher blood levels; that it is more slowly excreted, thereby providing a longer therapeutic level: and that it is more effective in equal

dosages against Gram-positive organisms. The recommended adult dose is 125 mgm. every 6-8 hours. Penspek tablets are issued in packs of twelve and 100 and the syrup in bottle of 60-mils.

Medicated "Junior" Shampoo.—S. Maw, Son and Sons, Ltd., Aldersgate House, New Barnet, Herts, are intro-



ducing through chemists the first nationally advertised medicated "junior" shampoo. Specially formulated to cleanse and condition the hair of babies and young children, the shampoo is suggested as equally suitable for anyone with a sensitive skin. It contains liquid lanolin. The shampoo is presented in a $2\frac{1}{2}$ -oz. tube in a display outer of 1 doz. A full-colour showcard is available.

"Low-voltage" Electric Blanket.— Latest production of Pifco, Ltd., Pifco House, Watling Street, Manchester, 4, makers of a wide range of electric blankets, is the Pifco "all-night" electric underblanket in single and double sizes. A control unit placed upon the bedside table changes the mains current from 200-50 volts used for warming the bed to a mere 12 volts for maintaining the comfort all night long. Additionally, an illuminated selector switch on the unit offers a choice of three degrees of all-night warmth. Separate control units enable each partner to select his or her own degree of warmth indepen-dently. The blanket material, which is made for Messrs. Pifco by Dormy, a long established blanket manufacturer, is soft, fleecy rayon/wool in pink or gold with matching satin ribbon binding Blanket sizes are 70 x 34 in. (single) and 70 x 54 in. (double).



Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A Centenary Booklet

- To commemorate their centenary, the Brighton and Hove Association of Pharmacy have compiled a booklet entitled "One Hundred Years of Pharmacy in Brighton and Hove. It contains several interesting photographs. Copies, price one shilling each, plus postage threepence, may be had from the undersigned. Profits from the sale of the booklets are being donated to the Pharmaceutical Society's Benevolent Fund.

(MISS) L. L. PECK, Secretary, 4 The Parade, Hangleton Road, Hove, 4

Price-maintained

SIR,-I read with interest your report on the Which? article concerning Limmits (C. & D., October 14, p. 414). Which? referred to Limmits being more expensive than Complan but added "They are, on the other hand, no trouble at all to prepare." You did not mention this additional sentence in your article and I should point out that, in fairness to ourselves, this deletion did not give your readers the complete You will know also that we picture. are taking most vigorous action to maintain the resale price of Limmits and the few cases which have been reported to us have been dealt with successfully and several chemists have congratulated us on the speed of our action. I mention this to you because I feel that your second head "A slimming food and resale price mainten-ance" may give the impression that Limmits and resale price maintenance are directly connected in your article. You may also like to know that the Pfizer medical department (who, of course, were responsible for the clinical investigations and all medical evaluation, etc.) have written to the Consumers' Association pointing out the false picture which they have presented to their readers.

W. A. HAWKINS, Press officer, LEAS CLIFF PRODUCTS, LTD., Folkestone, Kent

Common Market and Pharmacy

SIR.—The Pharmaceutical Society's report on the general practice of pharmacy is a monumental piece of work and though no doubt it will be praised and criticised, etc., amongst the branches during the winter, thanks must be expressed for the work and comprehensiveness of it. However, However, there is one matter that can have a serious effect on the report and pharmacy in general—entry into European Common Market. Continental nations except Belgium practise limitation of pharmacy. Where shall we stand? Also under the Rome treaty there must be free movement of labour eventually, at rates and conditions in which there must be no discrimination for the "foreigner." We know there is against the "foreigner." We know there is no reciprocity aet the moment of recognition, but will that come? The Con-

pharmacist tinental personally is responsible for the quality of the products he dispenses or sells. We in this country push it back on the manufacturer. The likely prices of foodstuffs and durables have been calculated, etc., but what of pharmacy lines? Will unilateral price maintenance go under the impact of entry? Italy has no patents laws, as our Health Minister has noted. How will that affect drug prices? Will there be a basic Health Service? And will there be a super Minister of Health (Heaven forbid!) to dictate terms? There are a thousand-and-one problems ahead if entry is agreed. Surely it would be advantageous for a further report by the Pharmaceutical Society on the likely effects of the European Common Market on pharmacy in MERVYN MADGE, this country. Plymouth

Action Demanded

SIR,—In order to bring to public knowledge the situation caused by the Minister of Health's recent dictate, we would suggest that all chemist contractors write to their national newspapers and to publications to which they subscribe, giving the facts of the Minister's recent imposition. In that way we shall gain a wide public ear to our cause, and stimulate an interest for the papers to explore further. In that way, too, each of us can help practically in preparing the public for any action adopted by our representatives. Please write C. SHERIL, S. CYNA,

London, N.16 SIR,—What are we waiting for? The profession has had a slap in the face and we can see just how highly our services are rated by the Ministry of Health. It is time for action, not meetings and conciliation. The Central N.H.S. (Chemist Contractors) Committee has the backing of the majority of pharmacists, so why not act at once? Our demands were very modest, I think, even too modest. We must not let them be reduced. There is only one thing a Government department understands in its dealings with the outside world, and that is toughness. We are in a position to be tough. We can live without the National Health Service. Can the N.H.S. live without us?

S. F. Brown, Tonbridge, Kent

SIR.—How much longer must we endure the paralysing torture of leaders who cannot lead? How much longer must we endure leaders who embarrass us in public and on television? Will the constant proclamations—to a completely disinterested public—that we are professional men feed our bellies? We face the gravest crisis yet in pharmacy and—make no mistake—worse is coming unless the initiative is in our hands. Had our leaders been on their mettle every chemist in this country would have withdrawn from service on November 1. Where were the with-drawal notices? Where were the con-

meetings tractors' throughout the country? country? Every pharmacist in this country must be immediately rallied to withdraw their services. Then-and only then—must Mr. Graham and his colleagues be prepared to negotiate. They are representing pharmacists who are ferociously angry—and rightly so. I say to our leaders "Contract out, hit out, or get out"! G. URWIN,

Newcastle-on-Tyne, 4

Imprudent

SIR,—Everybody is entitled to express his views but if he resorts to insults in order to corroborate otherwise hardly defensible views, he should not hide himself under the pseudonym "Prudentias" (see C. & D., October 28, p. 476), a word that is neither Latin nor prudent, but should sign with his full name. It seems that in certain colleges the fact is still not sufficiently hammered in that Assistants-in-dispensing are auxiliaries to pharmacists, in the same way as laboratory technicians, radiographers, physiotherapists, etc., are medical auxiliarics, working under the direction, responsibility and supervision of medical officers. But never, to my knowledge, has any one of those well trained auxiliaries claimed that he is "the one with the most practical experience" for which "no certificate can be a substitute." Neither would any medical auxiliary dare at any time to speak of a medical "locum racket." It scems to be the privilege of the auxiliaries to pharmacists—the "Assistants in Dispensing "—to make believe that they are "by experience" justified to replace their teachers, supervisers and employers. Maybe the scandalous fact of being paid, according to the Whitley scale, double the amount for the Apothecary Hall certificate that phar-macists are awarded for their degrees contributes to that over-bearing attitude. which culminates in the several suggestions of the writer to change the law. But it is the patient whose safety has to be guarded and secured, even during lunchtime and holiday periods. That principle is adopted by international legislation, irrespective of the displeasure within the ranks of un-qualified persons. I am a Hospital Chief Pharmacist living in retirement after forty-six years of international service. but I strongly object to insults intending to strike "a death blow" to colleagues whose temporary service proves to be of the utmost of value, as

well in hospitals as in retail.

C. J. RAWSKI-CONROY,
St. Albans, Herts

"Hall" Dispensers

SIR,—There appears to be a considerable amount of misinformed and muddled thinking concerning Apothe-caries' Hall dispensers, and I would like to put before you, for the consideration of your readers, a few facts and comments. Under the auspices of the Ministry of Health, the various pharmaceutical organisations, together

with the Society of Apothecaries and the Apothecaries' Hall Dispensers' Association, have been much concerned for a little over three years with the question of training dispensing assistants for the pharmaceutical departments of hospital and retail pharmacies. The results of those deliberations having been notified to the Minister of Health, it is hoped that in the near future action will be taken to implement the suggestions embodied in the report. Meanwhile, however, in a great many hospital pharmacies there are young people being trained in this work, the training often being supplemented by attendance at local technical institutes, etc., with a view to taking the examination of the Society of Apothecaries. Throughout the country there are hospital pharmacists who readily testify to the efficient, reliable work carried out by the Apothecaries

Hall dispensers, without whose co-operation many departments could not function, and in whom they have complete confidence. Similarly a many retail pharmacists are utilising the services of Apothecaries' Hall dispensers in their dispensing and stock-making departments. The retail departments. retail pharmacists want more money—don't we all?—and they are at present negotiating for an increased dispensing fee. As I understand it, that fee is based by the Ministry upon payment for the services of a pharmacist or work done under his "direct" supervision. Such statements as that which appeared in your issue of October 14, under the heading of "Assistant's Certificate" are puerile, and unworthy of an educated professional body, and we appeal to those retail pharmacists with courage of their convictions to stand out alongside the hospital pharmacists, and admit to the reliable service given to them by their certificated dispensing staffs. At the present time the Society of Apothecaries is preparing a register of dispensers, and this—the only such register—is composed entirely of holders of the Apothecaries' Hall certificate. We look forward to the time when all prospective employers, hospital, retail or medical, will consult this register in making appointments. Finally, I would stress that holders of the Apothecaries' Hall certificate recognise their limitations as qualified dispensers (they know enough to know when they don't know), and certainly have no aspirations now, or at any time in the future, to usurp the position of those whom they readily recognise as having a higher qualification.

ELFRIEDA LINTON, Secretary, Apothecaries' Hall Dispensers' Association.

BRANCH EVENTS

ROMFORD
Theatre Visit

THE annual theatre visit of the Romford and District Branch of the Pharmaceutical Society took place on the evening of October 19, when a party of twenty-five members and friends went to St. Martin's Theatre, London, to see the "whodunit" "Guilty Party." The play, a mystery without murder, was much enjoyed. A packed supper was provided for the homeward coach journey.

WESTERN PHARMACISTS

Hypnotism

The first meeting of the season of the Western Pharmacists' Association was held at the Great Western Royal hotel, Paddington, London, W.2, on October 11. A large assembly heard a talk by Dr. Noël Sherrard on "Hypnotism: Its Application to Present-day Physchological Illness." Dr. Sherrard traced the historical evolution and development of hypnotic treatment and described its present-day applications, illustrating his talk with demonstrations using members of the audience as "subjects." In the chair was Mrs. A. J. P. Turner (first lady president of the Western Pharmacists' Association).

WOLVERHAMPTON

Association's Dinner

Guest of honour at the annual dinner and dance of the Wolverhampton Chemists' Association at the Victoria hotel, Wolverhampton, on October 19, was Mr. Arthur Frost (secretary of the Local Pharmaceutical Committee). The toast to Mr. Frost was proposed by Mr. D. A. Rimmer, who afterwards presented him with a framed address in appreciation of his work over the past thirty years. Mr. Frost was also presented with an inscribed silver salver, on behalf of his professional colleagues, by Mr. A. A. C. Whick. The occasion coincided with the sixtieth anniversary of the founding of the Association.

REIGATE, REDHILL Dinner and Dance

ALMOST 180 members and friends attended the dinner and dance of the Rei-

gate and Redhill Branch of the Pharmaceutical Society at Gatwick on October 25. Mr. and Mrs. F. C. Wilson were the guests of honour. Mr. Wilson digressed from the social side in his speech to comment on the serious position facing retail pharmacists as a result of "the dictatorial attitude" of the Minister of Health It was probably true to say, he said, that never since 1914, in the days of the National Health Insurance, had relationships between the two stood at such a low level. Later in the evening a tombola session run in aid of pharmaceutical charities realised over £30, with the assistance of gifts from manufacturing and wholesale firms.

FIFE

President Assured of Co-operation

WILLINGNESS to co-operate in any field survey arising from the findings of the Committee on the General Practice of Pharmacy (see C. & D., October 7, p. 397) was expressed at a meeting of the Fife Branch of the Pharmaceutical Society at Kirkcaldy on October 10. That assurance was given to the president of the Society (Mr. H. S. Grainger) who had addressed the meeting on the general implications of the report. He said there was a sense of uncertainty about the future of the profession and a need to strengthen the hand of the superintendent pharmacists in large concerns. He emphasised that control must be by the profession and not by non-pharmacist directors of corporate bodies.

CROYDON

"Post Script"

AN informative account of her career in retail pharmacy and later as superintendent of the National Health Service pricing bureau at Crawley was given by Mrs. G. R. Boyes to a meeting of Croydon Branch of the Pharmaceutical Society and Croydon Pharmacists' Association on.October 20. She caller her talk "Post Script." In the early days of N.H.S., said Mrs. Boyes, the number of prescriptions arriving at a pricing bureau often far exceeded the bureau's capacity for undertaking the work involved. Although a "good pricer" was

capable of averaging 1,500-2,000 prescriptions a day, her own office had been so inundated during one period that pricing had lagged eight months behind. With a million prescriptions arriving each month and the necessity for retaining each one for six months after pricing, the point was reached, she said, "when we had to test the floors to see if they could take the weight." The return to full pricing of prescriptions had been welcomed as much by the pricer as by the retail Previously much corres-ad been necessary in pharmacist. pondence had been answering chemists' queries on lines priced on the "average" system. Mrs. Boyes added "No-one more devoutly hopes that full pricing will continue than the pricing superintendent." She had felt during her work as superintendent that some pharmacists were not aware that acceptance of prices laid down in the Drug Tariff was part of their terms of service under N.H.S. Giving examples, Mrs. Boyes added that a dispute in respect of those prices and terms could be and had been resolved by the pharmacist's referring the matter to the Local Pharmaceutical Committee, which could in turn refer if necessary, to the Central N.H.S. (Chemist Contractors) Committee, When asked to state how payment would be made on a prescription for 24 fl. oz. of a non-proprietary mixture, Mrs. Boyes said it would be considered only a single item for purposes of pricing, even though the chemist might have to dispense it in two 12-oz. containers. A prescription written for 2 x 12 fl. oz. was, however, always treated as two items. Prescriptions received in respect of any one month were priced according to figures prevalent on the eighth day of that month.

N.H.S. STATISTICS

In England during April 14,227,756 prescriptions (9,917,911 forms) were dispensed at a total cost of £5,784,093. Average cost per prescription was 91.57d. During May 15,617,972 prescriptions (10,918,626 forms) were dispensed at a total cost of £6,383,488. Average cost per prescription was 98.09d.

NOTES ON NEW MEDICAMENTS

Constituents: Amodiaquine CAMOPRIMA, hydrochloride and primaquine phosphate. Those substances are powerful antimalarials, and in combination are effective against all forms of the infective organisms present in the body. Thus in vivax infections amodiaquine destroys both the sexual and asexual forms, but not the forms associated with the blood cells. In falciparum malaria, amodiaquine is effective against all stages of the life-cycle with the exception of the sexual phase. Primaquine has a complementary action, destroying the gametes in falciparum infections, and the exo-erythrocyforms of the parasites in vivax infections. The combination is therefore effective in treatment of acute attacks and in prevention of re-Amodiaquine alone is available lapses. Camoquin, Lapoquin (chloroquine and chlorproguanil) is another mixed product, used mainly for prophylaxis, Single antimalarial preparations are represented by those containing chloroquine salts (Avlochlor, Nivaquine, Resochin, Bcmaphate and Bemasulph); chlorproguanil (Lapudrine), proguanil (Paludrine), pyrimcthamine (Daraprim), hydroxychloroquinc (Plaquenil) and mepacrine.

COSALDON.—Constituents: Nicotinic acid and 1-hexyl-3:7-dimethylxanthinc. The latter is related to theobromine, of which it is the hexyl derivative, and also to caffeine, which is 1-3-7trimethylxanthine. The new derivative is stated to be far more powerful than theophylline and to be characterised by a high rate of absorption and slow rate of excretion. Nicotinic acid potentiates its action. Other compounds related to theophylline are present in Choledyl (choline theophyllinate), Englate (theophylline sodium glycinate), Broutyl (proxyphylline) and Monotheamin (theophylline monoethanolamine),

GONADOTROPHIN.—Two types are known: serum gonadotrophin, or the follicle stimulating hormone (FSH) obtained from the serum of pregnant marcs, and chorionic gonadotrophin (LH) obtained from the urine of pregnant women. FSH, which is considered to be derived from the endometrium, has a physiological action similar to that of related hormones produced by the anterior pituitary gland, LH is produced by the placenta, and has the action of the luteinising hormone of the pituitary gland; like FSH, it is a glycoprotein, and has a molecular weight of the order of 100,000. Gestyl and Gonadotrophon FSH are other preparations of serum gonadotrophin, and the chorionic hormone is also available as Gonadyl, Gonan, Pregnyl and Gonadotrophon LH.

- Constituents: An iron-sorbitol-JECTOFER. citric acid complex stabilised with dextrin. This complex has a lower molecular weight than carlier iron complexes devised for intramuscular use, and is removed from the injection site and absorbed more rapidly. The complex is taken up mainly by the blood, and a part of the iron is readily available for haemoglobin synthesis. Iron dextran complexes appear to be absorbed more via the lymph, The lower molecular size of Jectofer also affects its excretion, and up to 30 per cent, of a dose may be eliminated from the system in the urine. Another iron prepara-tion for intramuscular use is 1mferon (irondextran). Astrafcr (iron-carbohydrate), Colliron (ferric hydroxide) and Ferrivenin (saccharated iron oxide) are intended for intravenous use.

LOTIO HYDROCOR f.—Constituent: Hydrocortisone in a water-miscible suspension. The antiinflammatory action of hydrocortisone is well known, and the use of a suspension is sometimes preferred to that of creams, ointments or solutions. Other topical liquid preparations of hydrocortisone include Cortril, Efcortelan, Genacort, Hydro-Adreson, Hydrocortistab and Hydrocortone. Lotions containing other corti-

costeroids are also available. PENBRITIN. — Chemistry: 6(D-α-aminophenylacetamido) penicillanic acid. This substance semi-synthetic derivative of 6-aminopenicillanic acid and is characterised by high stability and activity. When compared with penicillin G, it is slightly less active against Gram-positive organisms but ten times as active against Gram-negatives. In the latter respect it has an activity comparable to the tetracyclines and in the former it shows greater activity. The drug is not stable to the penicillin-destroying enzyme penicillinase, and so is not effective against penicillinase-producing bacteria. Other penicillin derivatives include 6-(α-phenoxypropionamido) penicillanic acid (Broxil), sodium 6-(2.6dimethoxybenzamido) penicillanate (Celbenin) and various preparations of phenoxymethyl-

penicillin (penicillin V).

SERENACE. - Chemistry: 4'-fluoro-4-[4-hydroxy-4-(4-chlorophenyl) piperidinol butyrophenone, also known as haloperidol. This substance has powerful tranquillising properties, but the mode of action is not yet clear. It has no action on monoamine oxidase, and so differs sharply from hydrazine-derived tranquillising drugs. Haloperidol has some chemical relationship with γ -amino-butyric acid, which is a product of brain metabolism, and the tranquillising properties of the drug may be related to its effects on the level of this amino-acid in brain tissue. Other tranquillising drugs that are not phenothiazine derivatives or inhibitors of monoamine oxidase include Tryptizol (amitriptylinc), Taractan (chlorprothixene) and Librium (chlordiazep-

SOFRADEX.-Constituents: Soframycin, grami-Soframycin, also cidin and dexamethasone. known as framycetin, is active against most staphylococci. The antibacterial range of Sofradex is extended by the addition of gramicidin, which is effective against streptococci. Dexamethasone, one of the high potency steroids, is added for its anti-inflammatory and antiallergic properties. Framycetin, together with hydrocortisone, is also present in Framycort and with prednisolone in Cortibiotic. A wide range of products, formulated on similar lines and containing an anti-inflammatory steroid with an antibiotic, are now available; these include Predsol-N, Neo-Medrone, Neo-Cortef, Ecomytrin, Cortoderm and Cortosporin.

THORAGOL,—Chemistry: 2-(1-2-diphenylethoxy)ethyl trimethyl ammonium bromide, Quaternary ammonium compounds have a number of interesting pharmacological properties, but Thoragol is unusual in having an anti-tussive action. This is effected by a depression of the cough centre, that cough-causing stimuli are unable to evoke the usual response. A variety of other drugs with cough centre depressant properties have been introduced in recent years, including pholcodine (present in Ethnine, Tusseprin, Sancos, etc., noscopine (present in Coscopin and Nicolane), oxeladin (Pectamol), and others (in

Tessalon, Sedulon, Becantyl, etc.).

- Constituents: Diphtheria toxoid, tetanus toxoid and B. pertussis vaccine. The advantage of diphtheria immunisation is well established. Immunisation against tetanus is also important because although the incidence of tetanus is low the mortality rate is high. Whooping cough is also a serious matter in young children, and protection against all three infections can be given by the use of a combined injection. Further, the addition of vaccincs to the tetanus toxoid can result in a five-fold increase in the antibody response it. Trivax is a triple-antigen product of similar composition.

TRIOGESIC. — Constituents: Phenylpro aminc, mcpyraminc, pheniramine and Constituents: Phenylpropanolcetamol. Phenylpropanolamine is related to ephedrine and has similar decongestive pro-perties but fewer side-effects. Mepyramine and pheniramine are antihistamines. The decongestant and anti-allergic effects are supported by the analgesic action of the paracetamol, Capriton is formulated on similar lines, and contains chlorpheniramine, phenylephrine, aspirin, phenacetin and caffeine. Histadyl E.C. contains methapyriline, cphcdrine and codcine. Rinurel includes phenylpropanolamine, phenyltolox amine, paracetamol and phenacetin. Triotussic is similar to Triogesic, but includes terpin hydrate and narcotine as anti-tussive con-

VALOID.—Chemistry: 1-methyl-4-alpha phenyl benzyl-piperazine hydrochloride, or cyclizine, This compound has the general properties of the antihistamines but its anti-emetic effects are exceptional. It also depresses the sensitivity of the labyrinth of the internal ear to stimuli, and

is thus of value in vertigo and motion sickness. The use of the drug in suppository form ensures adequate absorption when vomiting oral therapy. Cyclizine is also available as Marzine tablets. Other compounds also used in vomiting or motion sickness include promethazine theoclate (Avomine), pipamazine (Mornidine), trifluoperazine (Stelazine), prochlorperazine (Stemetil) and buclizine (Vibazine). Meclozine (Ancolan) is chemically related to cyclizine, and with pyridoxine is available as

WORLD TRADE

Tariff Increase on Antibiotics.— Special tariffs have been imposed to prevent the flooding of the Australian market with penicillin and streptomy-cin. The Tariff Board has found that these antibiotic drugs in various forms are being exported to Australia from Britain in over-large quantities. Britain in over-large quantities,

Hungarian Factory for Ghana.—On the basis of an agreement between the governments of Hungary and Ghana for the delivery of several factory equipments, the first pharmaceutical factory is to be shipped to Ghana by the Hungarian foreign trading company Komplex. The factory, to be built in Accra according to Hungarian plans, will after due extension in later years, serve as a basis for the development of an independent pharmaceutical industry in Ghana. In the period of building and equipping the work is being directed by the Chinoin pharmaceutical factory of Hungary. Once in operation, the factory will be supplied with the primary materials by the Hungarian pharmaceutical industry. The factory is expected to start production in 1963 and to employ about 200.

U.S. Photographic Film Imports.— United States imports of all types of sensitised, unexposed photographic film continue to increase. Total overseas purchases of all types of photographic film rose 15.4 per cent to a value of \$7,545,845 in the first half of 1961, compared with \$6,539,251 for the 1960 period. Imports from Belgium—the largest supplier of foreign photographic film to the United States, were valued at \$4,682,780, an increase of over 22.5 per cent. over the corresponding 1960 total of \$3,823,089. By value, Belgium furnished 71.7 per cent. of the roll film, 65.5 per cent. of the x-ray film, 40.1 per cent. of "other film," and 75.4 per cent. of the sensitised, unexposed, motion picture film. Imports from the United Kingdom continued to decline. In the first half of 1960, U.S. purchases were valued at \$1,448,757 and at \$1,254,181 in the same period of 1961. The drop was primarily due to the decline in x-ray film shipments.

IN PARLIAMENT

A NEW session of Parliament was opened on October 31. The Queen's speech included a reference to plans the development of the hospitals over the next decade, within the framework of the National Health Service as a whole." A Bill is also to be introduced to improve the provision for supplementing workmen's compensa-tion and to make certain alterations in the administration of the schemes for family allowances, national insurance and industrial injuries.



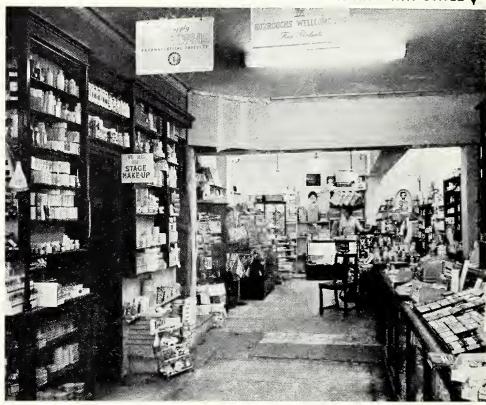
■ BEFORE THE CHANGE

WANSTEAD PHARMACY SIDNEY J. PELLIN CO. 35

A Pharmacy Transformed

PLANNING BEHIND A MODERNISATION AT WANSTEAD

"BUSINESS AS USUAL" : A HALF-WAY STAGE



HOWEVER absorbing may be the technical details of showcases, shelving and shopfittings in any reconstructed pharmacy, what matters, both to the pharmacist himself and to any others who may profit by his experience, is the thinking that went into it. Did it add up to a coherently planned whole capable of improving turnover as well as working conditions? Do the returns prove it to have been justified? Were there any elements that would be treated differently if they had to be done again?

In carrying out the transformation recently of the Wanstead Pharmacy, 64 High Street, London, E.11, Mr. Sidney J. Relph had a clear policy in mind. It was, while continuing to provide the most complete dispensing service—and even to improve it by attention to the comfort of waiting customers in a locality with a high working population — to expand the cosmetic, toilet preparations and photographic sides of the business and if possible enlarge the "catchment area" from which its customers came. That was an intention made more achievable by the fact that the shop faces an Underground Station, though it also faces the competition of a multiple only a few doors away.

So the dispensary was set at the back of the shop, most of the shopfront was made backless, and a perfume "bar" was the department placed nearest the entrance, Customers for cosmetics and perfumery were to be given the same personal and individual attention as prescription customers—their problems, wants and predilections to be talked about and entered into. In days when most other retail businesses are going in the direction of self-service that policy may seem against the stream, but Mr. Relph and his partner, Mrs. Nunn, believe that the pharmacist's chief asset in his dispensing department, namely

his personality and expert knowledge, can and should, for competitive success, be turned to account in the other departments of the business. In certain other respects, however, the lessons of the supermarket have been learned and applied. As wide a range of merchandise as possible is set out attractively—though not in supermarket style—to catch the customer's eye and prompt the "impulse" sale, and it is clearly labelled and brightly lit.

Externally, the brightness starts at the facia itself which, incorporating a pharmaceutical modification of the arms of the borough, is in blue lettering against white Perspex illuminated from behind. Two small projecting illuminated signs are at different levels so that a person on the pavement, approaching the pharmacy from either direction, sees both legends, "CHEMIST' and "CAMERAS." Below the facia the shop door, left of centre, is set back, and the larger (backless) window slopes back to it, meeting at right angles the return of a smaller window, whose front and side faces are used for the display of perfumery, cosmetics and cameras. By a clever piece of design the return line of the smaller window is extended to become the counter line of the perfume "bar."

There are other distinctive features of the shopfitting. The perfumery

counter—on the left as one enters the shop—is followed by a succession of sales displays of the goods of selected cosmetic manufacturers, all "angled" to the wall. Along the right hand side of the shop are two display-tray and one showcase-topped counters (for toiletries, medicinal products and sundries respectively).

The left-hand series ends in a perpendicularly placed showcase about three-fifths the distance to the rear, leaving room for a photographic department "alcove" and a cushioned corner seat accommodating up to five waiting customers. Customers can see that work is being done in the dispensary without being able to watch actual operations being carried out.

The drug counter abuts upon the dispensary. Between the two is a set of shelving accessible to both sides, on which are kept proprietary pharmaccutical specialities that have both a dispensary use and an over-the-counter sale. Woodwork throughout the shop is in African walnut, The rear wall, behind which are stockrooms and office, is mirror-fronted, which not only doubles the apparent depth of the shop but provides a more attractive corner for customers making use of the seating accommodation. Facing them as they wait is a showcase displaying sickroom requisites. Showcases behind the

drug counter are labelled — in blue letters on white ground—"Baby needs," "Herbs," etc., and, as decorative elements on a section of wall, effective use is made of prints issued by Abbott Laboratories, Ltd., in a series illustrative of pharmacy through the ages. As the customer leaves the pharmacy he sees a display of pharmaceutical specialities that covers the rear of the display





of sundries on a display table in the open window.

Lighting of the shop by tube and filament lamps was planned by a local contractor. Otherwise the whole of the hopfitting work was carried out by Myers of Old Street, the Pharmacy Fitters, Ltd., Unisec House, Old Street, London, E.C.1.

The question of success, posed in the irst paragraph, may now be answered.





- 1. The new shopfront showing backless right-hand window and armour-plated doors angled to meet at right angles the return front of the left-hand window.
- 2. Fixtures for housing, display and sale of cameras, films, electromedical apparatus and large sundries.
- 3. Window becomes counter: how the perfume "bar" continues the line of the return frontage of the smaller display window.
- 4. Main pharmaceuticals counter and shoulder-height showcase behind which is the dispensary.
- 5. Rear left-hand corner of the pharmacy, showing quarter-circle of upholstered seating for waiting eustomers. The rear wall is mirror faced. The carboy stands upon the dispensing



Even in the dispensing department, where no increase was expected, turnover is up slightly. In cosmetics the amount of business done is well up though other contributory factors are the stock policy, which aims to have such a range of products, including agency products, available that women can confidently expect to be able to buy locally instead of, as was often the case beforehand, making journeys to the West End for the purpose. Mr. Relph has excellent reason to be pleased with the results of the change and offers an invitation to other pharmacists to call and see the Wanstead Pharmacy and find out if it has points they can adopt.

TASTE COUNTS WITH THESE CUSTOMERS...

. . . and their acceptance of medicine is probably in direct proportion to its palatability. That's why, when children need penicillin, doctors confidently prescribe, and pharmacists dispense ...

SUSPENSION PENICILLIN-V-LILLY

SYRUP 'V-Cil-K'*

Penicillin V Potassium

Suspension Penicillin -V: Bottles to make 60cc.

Syrup V-Cil-K:

Bottles to make 30 and 60cc.

ELI LILLY AND COMPANY LIMITED BASINGSTOKE ENGLAND



For Retailer, Wholesaler and Manufacturer
ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

Drug and Poisons Problems in New Zealand

An increase by £841,855 to £6,798,157 in the cost of New Zealand's pharmaceutical benefits in the year ended March 31, is revealed in the recently issued report of the N.Z. Department of Health. A total of 14,799,514 prescriptions is recorded as having been dispensed during the period at an average cost of 9s. $2\frac{1}{4}$ d., against figures for the previous year of 14,439,520 and 8s. 3d. respectively.

The rise in the average cost per prescription is ascribed in part to increased ordering of extended supplies, and as that change of procedure may account to some extent for a lower number of claims for general medical services than was expected during the year under review, the increase has probably to be set against a saving in that direction.

The report reflects the view that New Zealand's rising drug bill was part of a world-wide pattern and was not due to the existence of the "free medicine" scheme, quoting as confirmation the International Labour Office survey: "The Cost of Medical Care" (see C. & D., January 21, p. 61) in which it was ascertained that the cost of pharmaceutical supplies in New Zealand was well below the average and its expenditure was "modest indeed." The Director-General reaffirms that "New Zealand gets good value for its expenditure on drugs."

Another section of the report deals with advertisements for medicines, appliances and methods of treatment. It states: "While the matters specifically set out in legislation as requirements or prohibitions in medical advertisements have been substantially observed, there is no doubt at all that consumers are being deceived, misled and misinformed by a large proportion of the medical advertisers" in New Zealand. "The real answer to this deception," it continues, "is greater knowledge — for manufacturers, advertisers and consumers. However, to require every proprietor of a medicine, appliance or method of treatment to have sufficient knowledge of what he is doing would be a fundamental restraint which has not yet been attempted . . . and to instil in every member of the public a sufficient knowledge to avoid being deceived or misled would be impossible." Describing the efforts that had been made to help doctors to use to best advantage the drugs at their disposal, the Director-General states: "It has never been proved that 'good prescribing' is also economical prescribing, but there are excellent reasons for believing that this is so."

Elsewhere in the report the hope is expressed that the Poison Act, 1960, will enable the Health Department to deal with the increasing problems of reinforcing voluntary restraint applied by reputable organisations in the use of toxic substances. The reference to the Department—as provided for in the Agricultural Chemicals Act—of applications for the registration of agricultural chemicals unexpectedly disclosed that a large number of manufacturers had failed to give warning on their labels of hazards that were not only required by older legislation, but of which the manufacturers had a common-law responsibility to give warning. It had also indicated that many manufacturers and distributors were not aware of the properties and potential hazards of the products which they were marketing.

It will be seen that many of the problems in New Zealand are apparent to a greater or lesser degree in this area of the Northern hemisphere. The international interchange of such reports, giving the results of practical experience, is therefore invaluable.

Overseas Trade in September

SEPTEMBER exports of drugs, medicines and medicinal preparations from the United Kingdom were, at £3.95 millions, almost identical in value with those shipped during August. In the first three-quarters of the year the total value of medicines exported was £36.3 millions, against £32.7 millions—a rise of 11 per cent.—but it must be remembered that by the end of September 1960 the trade figures had begun to be distorted by the strike of tally men in the London docks.

There was a notable increase during September of exports to the United States. The total of £318,037 (which may have been influenced by a shipment of polio vaccine), made that country Britain's second largest customer. Australia's purchases were at £320,919, just a little ahead of the U.S. Exports to Nigeria, at £251,414, continued to improve on those of 1960, but exports to the Irish Republic were, at £159,979, a little over £40,000 down on those of September 1960. Turn-

EXP	ORTS				VALUE
Drugs, medicines,	medici	aal n	reparat	ions -	£
(total)					3,959,311
Vitamins		• • •			225,143
Penicillin salts					56,706
Penicillin injections					48,360
Penicillin tablets, oi			• • •		74,793
Antibiotics other th			• • •	• • • •	591,668
* *			• • •	• • •	117,182
Hormones Alkaloids	• • •	•••		•••	130,059
	• • •	• • •		•••	,
4 *** *	• • •	• • •	• • •	•••	114,208
	• • •	• • •	• • •		56,774
Antipaludics	• • •	• • •	• • •	• • • •	72,019
Barbiturates	41		-1-1	***	58,150
Anaesthetics (exclude	_		chlorof	ОПП	00.721
and ethyl chloride		• • •	• • •	•••	88,731
Ointments and linin		• • •	• • •	• • •	130,659
Insulin	•••	• • •	• • •	•••	20,491
Sulphonamides, pre		• • •	• • •	• • •	113,473
Proprietary medicine		• • •	• • •	***	1,206,022
Unclassified medicin	ies '	• • •	• • •		816,969
Glycerin			• • •	• • • •	66,036
Acetone				••••	19,181
Citric acid	• • •		• • • •	•••	51,376
Essential oils, natural,		ling tu	pentin	e	61,685
Sulphonamides, unpre		• • •	• • •	• • •	60,866
Perfumery and toilet p					
Lipstick, face powd	ler, etc			• • •	244,647
Dentifrices					158,144
Toilet soaps					301,002
Synthetic detergents	•••				561,518

IM	VALUE			
Vitamins				 41,023
Antibiotics				 75,547
Alkaloids				 77,998
Proprietary medicing	es	***		 69,595
Unclassified medicin	ies			 226,578
Borax				 62,939
Iodine			•••	 59,791
Menthol				 34,910
Essential Oils:				,
Bergamot				 13,189
Citronella				 46,622
Clove				 1,513
Geranium				 44,840
Lavender	• • •			 7,393
Lemon				 17,546
Orange			• • •	 17,474
Peppermint				 184,255
Unclassified				 272,182

ing again to the Australian market, it it noteworthy that, in common with Britain's total exports to the Com-

monwealth, exports of prepared medicines are falling off. In the first nine months of the year they have totalled £2.97 millions, against £3.10 millions for the corresponding period of 1960. New Zealand, however, has stepped up her purchasing. Apart from Holland and Germany, the countries in the Common Market purchased more than in September 1960; but for all six of them the aggregate purchases during the nine months of the year are well ahead of last year's levels. Sales to E.F.T.A. members also show an encouraging improvement.

The value of shipments during September for those items for which statistics are published are given in the accompanying table. In the second table are given imports of prepared medicines. They were, at £490,741, higher than in July or August, but the total is likely to go much higher in the near future, now that the Minister of Health has decided to buy from Europe hospital requirements of certain expensive drugs.

PHARMACIST, PERFUMER, AUTHOR AND PHOTOGRAPHER

The remarkable career of William Arthur Poucher, F.P.S., F.R.P.S.

FRANK HALEY, M.P.S.

DURING November, Mr. W. A. Poucher, who started his career as a retail pharmacist, but left the profession to

become a perfumer, author and photographer of international repute, celebrates his seventieth birthday.



Mr. Poucher started out in traditional style in mid-Edwardian years as an apprentice to Carlton & Sons, Horncastle, Lincs. He describes his first employer as "a fine example of the old-style apprentice-master, very dignified, wearing top hat, white gloves and other impressive attire, and conductor of the local orchestra." Soon after qualifying in 1913, Poucher set up, "with

youthful sanguinity" as a consultant in Bond Street, London, W.l. While there he was introduced to Yardley & Co., Ltd., to whom he subsequently became chief perfumer, staying with the company for thirty years. His technical book "Perfumes, Cosmetics and Soaps" came out in 1923. Since then 32,000 copies have been sold, it is now in its seventh edition and is issued in three volumes.

Mountaineering is said to be Mr. Poucher's hobby and pleasure but, accompanying him over wet stretches of Lakeland, the pursuit secmed to me to be a highly serious business. We may have joked now and then, but never over such matters as the miniature camera and its sacred duty in regard to scenery. He told me that his début as an author-photographer in landscape was accidental. publisher chanced to see pictures of Lake District holidays which Poucher had taken and immediately shelved a discussion of the technical book for an excited debate on the possibility of a volume reproducing the photographs. 'Lakeland Through the Lens" of a Leica camera was the outcome. It exhibited sizeable enlargements from tiny negatives-140 of them, full page-with 200 pages of text. The publishers felt that a run of 10,000 copies, each selling at 18s. in 1939, was a good risk. And they were right. The first impression was sold out in ten days, and Poucher was pitchforked into a second career, which led to the publication of similarly successful books, and involved the author in travelling throughout the British Isles and abroad. His engagements for lectures also proved highly successful.

Though Poucher is now retired, he has restless energy, and is never happy unless creating a new pictorial angle on

some familiar view, or finding a shot no one has taken. For years he has done his own developing and printing, so that, he says, "I can only blame myself then for the results, but I can claim to have had far less work spoiled this way."

Of his "failures" he told me that he must have been one of the first chemists to adumbrate the use of cosmetics for men. "That was not five or ten years ago, but in 1930. I was told I was mad! Yet look at the sales of such merchandise today, and it is only beginning."

"OPEN SHOP"

By E. C. TENNER

MUCH is said of modern selling methods. What about modern buying? I have become convinced that unless all of a bonus parcel can be sold within four weeks of purchase it ought not to be bought at all, but the goods should be drawn through a wholesaler in smaller, say, weekly or fortnightly quantities. Television publicity produces a mushroom sale for a new line. The sale dies as soon as the publicity stops, and if any of the bonus parcel is unsold it is probable the dead stock could become a loss, not a profit. The tendency is for the manufacturer to quote a wholesale price showing 25 per cent, or less profit on small quantities bought through a wholesaler, but to require the purchase of at least a dozen (generally more) before the economic profit of 33\frac{1}{2} per cent. can be earned and then only when each of the dozen is sold. I believe the up-to-date retailer should resist the impulse to buy those initial parcels and insist on a basic 33½ per cent, profit on small numbers purchased through a wholesaler before he gives the line any more than minimum shelf room. I have often wished the National Pharmaceutical Union would give us retailers definite advice on specific instances of bonus offers and how we could act together to persuade certain manufacturers that they must arrange a fair (33¹/₃ per cent, on turnover) profit for unit puchases if they want to attract our support. In fact that seems wishful thinking, and I am now satisfied that the most efficient and modern buying method is to make a general rule of buying everything through one of our many and efficient wholesalers. The spacious old days of "good buys" and "bargain bonuses" have gone for good. Manufacturers have done them to death. Each one of us needs to make full use of the efficient wholesalers who are jockeying each other to serve us. The saving in office work alone should be worth many valuable hours in a month. Those hours could be much better spent in the shop or on holiday.

THE DEEP FREEZE AND AFTER

N all negotiations of difficulty," says Sir Francis Bacon, "a man may not look to sow and reap at once, but must prepare business and so ripen it by degrees." That gem of prose and wisdom is likely to provoke sardonic mirth rather than patience in the ears of pharmacists in present circumstances, for all the preparation of business and patience of many years seem to bring forth no bud of hope, let alone ripe fruits. Hospital pharmacists seem to have been singularly unfortunate in the timing of their claims, and this time have fallen slap into the Chancellor's deep-freeze, along with all the other public servants. It may be that the general policy of the Government in creating a wages pause is sound, but it is little comfort that those who are in no position to affect productivity in industry, and whose earnings have always been well behind industrial rewards, should be the first to take the cold-douche treatment when the economic winds blow chill. Yet even that adversity might have been tempered had the management side of the Whitley Council shown some willingness to negotiate for the future. It seems that, far from their doing so, there has been nothing but procrastination for four months or more and still, apparently, no date has been arranged for considering the claims lodged early this year. Statements in the Press regarding teachers' salaries seem to indicate that the "unfreeze" will probably be in or about April 1962, and we shall then find ourselves in a mad scramble with a host of other claimants. Small wonder that there has descended upon us all a mood of disillusion and apathy. Small wonder that one views with a sceptical eye the Minister's memorandum on the economic use of drugs.

In other quarters the disillusion and the scepticism have turned to anger, and the threat to withdraw from the Service. Such action commands little public sympathy, and is in any case repugnant to hospital staffs. Yet the circumstances are rapidly developing in which the issue must be faced. Many have made their own silent protest by leaving the Service for other employment. It is not uncommon to find that hospitals are being run by a staff the majority of whom have been in their posts for only six months or less. There is one London teaching hospital at which the second senior person in a staff of seven in the dispensing section is the post-graduate student who started in August, Facts such as these appear to leave the Ministry unmoved. It seems that only a series of grave errors involving the death of some patients will drive home the necessity of creating better conditions. Happily that has not yet happened, but its possibility haunts the mind of responsible hospital staffs.

Now a new problem appears on the scene. Our retail colleagues, also incensed by the frustrations of ineffective negotiations, have given warning that they may withdraw from the Service after due notice in accordance with the terms of the contract. This is not the place to consider the rightness of their claim nor to judge whether such action is justifiable. The hospital pharmacist will have to meet an inevitable demand for increased services if the threat is carried out. It will be impossible for him to distinguish between those patients who have been referred to hospital as a direct result of the withdrawal and those who would have been referred in any case. Moreover, he cannot lightly turn away patients requiring anything up to £5 worth of medicines to find them as best they may from retail sources at private dispensing rates. These are matters which surely must be discussed between the hospital pharmacist and the contractors' committee at an early date and before the latter take the final decision to withdraw. But it must also be made clear to the Minister that the hospital pharmaceutical service is already overloaded and that it is likely to collapse if such an added burden be thrust upon it.

The Minister has looked to hospital pharmacists for a high degree of co-operation and, so far as professional matters

are concerned, he has not looked in vain, but there must come a limit to what the system will bear.

Perhaps this is the time when circumstances will compel hospital, retail and industrial pharmacy to come together to consider their problems, for all three are at present in dispute with the Government to some degree. For many years the Government has been able to play off the interests of one against the others, and each has felt that what common ground existed was too insignificant to allow of common action. Adversity makes strange bedfellows, but it is perhaps not so strange, after all, that the different sections of one profession should join in a common cause when each is under pressure from the same source.

Pharmaceutical Society of Northern Ireland

MONTHLY MEETING OF COUNCIL

R. W. J. THORNTON, Newcastle, co. Down, was elected *President* for the year at the October meeting of the Council of the Pharmaceutical Society of Northern Ireland in Belfast. Mr. Thornton's election was proposed by the outgoing president (Mr. A. Templeton) and was seconded by Mr. Walter C. Tate, who both said they were pleased that Mr. Thornton had consented to accept office, and looked forward to his enjoying a happy year. Messrs. Tate, H. G. Campbell and W. H. Boyd congratulated Mr. Templeton on the manner in which he had conducted the meetings of the Council during the year, and said that pharmacy owed a great deal to him.

MR. D. MOORE was elected *Vice-president* on the motion of MR. THORNTON, seconded by MR. H. W. GAMBLE, who both expressed their confidence that Mr. Moore would carry out his duties in an efficient manner.

MR. R. M. WATSON was re-elected *Honorary Treasurer* on the motion of Mr. Moore, seconded by Mr. Boyd.

The following committees were elected: Education: W. H. Boyd, N. C. Cooper (chairman), W. P. Ewart, H. W. Gamble, W. T. Hunter, G. E. McIlhagger, Professor O. L. Wade, Dr. R. G. R. Bacon. Ethical: N. C. Cooper, W. P. Ewart, B. Flatley, W. S. Hall, W. T. Hunter (chairman), J. Kerr, G. E. McIlhagger, A. Templeton. Finance: W. H. Boyd, H. G. Campbell, B. Flatley, J. Gordon (chairman), A. T. Hardy, W. C. Tate, R. M. Watson, F. R. Moore. House: W. H. Boyd, H. W. Gamble, J. Gordon, A. T. Hardy, W. T. Hunter, J. Kerr (chairman), R. M. Watson, Dr. R. G. R. Bacon. Law: H. G. Campbell, B. Flatley, J. Gordon, W. S. Hall (chairman), A. T. Hardy, J. Kerr, W. C. Tate, A. Templeton.

The president and vice-president are ex-officio members of all the committees except the Statutory Committee.

An application from Mr. Richard Alphonsus Holden, 34 Duler Avenue, Kempston, Bedford, for the restoration of his name to the register of Pharmaceutical Chemists for Northern Ireland was granted.

A report on the progress of the C. W. Young Scholarship Fund was given by MR. D. Moore. He said that during the summer the members of the committee had not been able to make the personal calls they had hoped. Earlier in the month the calls had been resumed and the

fund stood at £3,269.

Replying to Mr. W. P. EWART, THE SECRETARY (Mr. W. Gorman) said that the expenses incurred in the June examination amounted to £1,060. Fees received totalled £930.

Reports from the House, Education and Finance Committees were adopted.

Messrs. Cleaver, Fulton and Rankin were reappointed solicitors, and Messrs. Robert Walsh and Sons auditors.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 502.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

COSALDON tablets

Manufacturer: West Pharmaceutical Co., Ltd., 9 Palmeira Mansions, Church Road, Hove, Sussex.

DESCRIPTION: Blue scored tablets (imprinted COSALDON on one face), each containing 200 mgm. of 1 hcxyl 3:7 dimethyl-xanthine (SK 7) and 50 mgm. of nicotinic acid. Cerebral vasodilator.

INDICATIONS: Cerebral sclerosis.

Dosage: Initally, half a tablet three times a day with water, after meals, for four days. Thereafter increase to one tablet three times a day. After 6-12 weeks, depending on the progress, dosage can be reduced to two tablets a day and thereafter one tablet a day.

PRECAUTIONS: Dosage should be stopped and restarted at a lower level if the patient is unduly upset by the blood pressure drop, which is liable to be 10-15 per cent. where the initial pressure is very high.

How Supplied: In bottle of 100. First Issued: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

SECRODY L tablets

Manufacturer: The British Drug Houses, Ltd., Graham Street, London, N.1.

DESCRIPTION: Uncoated yellow tablets, each containing 10 mgm. of dimethisterone and 0.05 mgm. of ethinyloestradiol.

INDICATIONS: Pregnancy diagnosis.

DOSAGE: One tablet morning and evening for two days usually produces bleeding within 2–6 days in non-pregnant women.

How Supplied: In single pack of four, and box containing five packs.

SUPPLY RESTRICTIONS: P.I, S.4B. FIRST ISSUED: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

SOFRADEX eye/ear drops and ointment

Manufacturer: Roussel Laboratories, Ltd., 843 Harrow Road, London, N.W.10.

DESCRIPTION: Drops containing 5 mgm. of soframycin, 0.05 mgm. of gramicidin and 0.5 mgm. of dexamethasone per mil. Ointment containing those quantities per gm.

INDICATIONS: Allergic and infective conditions of the ear, external appendages and anterior segment of the eye.

Contraindications: Herpes simplex.

METHOD OF USE: 1-2 drops four times a day; may be used every 1-2 hours if necessary. Ointment, apply four times a day.

How Supplied: Drops in bottle of 3 mils. Ointment in tube of 3 gm.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: September 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

THORAGOL syrup

Manufacturer: Lloyd-Hamol, Ltd., 11 Waterloo Place, London, S.W.1.

DESCRIPTION: Pleasantly flavoured syrup containing 20 mgm, of 2-(1,2-diphenylethoxy)-ethyltrimethylammonium bromide per tablespoonful (15 mils). Cough suppressant.

INDICATIONS: Acute and chronic bronchitis; colds and influenza; tracheitis; nasopharyngitis; tuberculous cough; chronic smoker's cough; post-operative cough; "nervous cough"; bronchopneumonia.

Dosage: Adults, 1-2 tablespoonfuls. Children (over 7 years), 1-3 teaspoonfuls. Infants $\frac{1}{2}$ -1 teaspoonful. May be taken two to four times a day.

How Supplied: In bottle of 6 fl. oz.

First Issued: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

BENURIDE tablets

Manufacturer: Bengué & Co., Ltd., Mount Pleasant, Wembley, Middlesex.

DESCRIPTION: Plain white bevelled-edge tablets, each containing 200 mgm. of phenylethylacetylurea. Anticonvulsant.

INDICATIONS: Epilepsy; particularly in lesions of the temporal lobe.

CONTRAINDICATIONS: Renal or hepatic dysfunction.

Dosage: For previously untreated cases, 600-800 mgm. daily in divided doses. For patients already under treatment, dosage according to the condition and type of therapy (see literature).

How Supplied: In containers of 100 and 500.

FIRST ISSUED: September 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

DECA-DURABOLIN injection

Manufacturer: Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2.

DESCRIPTION: Injection containing 25 or 50 mgm. of 19-norandrostenolone decanoate, in ethyl oleate, per mil. Anabolic agent.

INDICATIONS: Inoperable mammary carcinoma; osteoporosis; Uræmia; weight loss.

Dcsage: 25-50 mgm. intramuscularly every 3 weeks.

How Supplied: In boxes of one and three ampoules each containing 1 mil.

SUPPLY RESTRICTIONS: P.I, S.4B. FIRST ISSUED: September 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

Lotio Hydrocort (Roussel)

Manufacturer: Roussel Laboratories, Ltd., 843 Harrow Road, London, N.W.10.

DESCRIPTION: Water-miscible milky suspension containing 0.5 or 1 per cent, of hydrocortisone.

Indications: Ano-genital pruritus; localised pruritus, chronic dermatitis of the ears (otitis externa), feet and hands; contact dermatitis; cutaneous allergic disorders; varicose eczema; infantile eczema; nummular eczema; seborrhœic eczema; localised neuro-dermatitis; lichen simplex.

CONTRAINDICATIONS: Burns with blistering; herpes simplex.

METHOD OF USE: Apply 1-2 drops, initially one to four times a day, then two to three times a week.

How Supplied: In bottle of 20 mils.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: September 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

TRIOGESIC tablets and suspension

Manufacturer: A. Wander, Ltd., 42 Upper Grosvenor Street, London, W.1.

DESCRIPTION: Pink biconvex tablets (die-stamped WANDER), each containing 25 mgm. of Triominic (phenylpropanolamine hydrochloride 50 per cent., mepyramine maleate and pheniramine maleate each 25 per cent.) with 500 mgm. of paracetamol. Suspension containing 12.5 mgm. of Triominic and 250 mgm. of paracetamol per teaspoonful (4 mils). Decongestant and analgesic.

INDICATIONS: For symptomatic relicf of congestion and pain in sinusitis, middle-ear disease, catarrh and head cold.

Dosage: Adults, one tablet every 3-4 hours. Children, 1 teaspoonful of suspension every 3-4 hours.

How Supplied: Tablets, in tin of thirty. Suspension, in bottles of 4 and 20 fl. oz.

SUPPLY RESTRICTIONS: P.I, S.7.

FIRST ISSUED: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

CAMOPRIMA tablets and "infatabs"

Manufacturer: Parke, Davis & Co., Staines Road, Hounslow, Middlesex.

DESCRIPTION: Tablets, each containing 150 mgm. of amodiaquine (as hydrochloride) and 15 mgm. of primaquine (as phosphate). Infatabs, each containing 75 mgm. of amodiaquine and 15 mgm. of primaquine (as phosphate).

INDICATIONS: For prevention or treatment of malaria.

Dosage: (Adult), acute clinical attack: Two tablets on first day, one on second and third days, then two weekly for 6 weeks. Drug prophylaxis: Two tablets weekly or on alternate weeks. Eradication programmes: Two tablets weekly or every two weeks until eradication is complete. Children and infants, dosage based on body weight. (See literature.)

How Supplied: Tablets, in containers of sixteen, 100 and 1,000. Infatabs, in bottles of ten and 100.

FIRST ISSUED: August 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

Chorionic gonadotrophin (Leo)

Manufacturer: Leo Pharmaceutical Products, Denmark.
DISTRIBUTOR: Leo Laboratories, Ltd., 15 Clipstone Street,
London, W.1.

DESCRIPTION: Sterile white powder simulating in effect natural luteinising hormone.

Indications: In the female, amenorrhea; functional sterility; cystic glandular hyperplasia; dysmenorrhea; premenstrual tension. In the male, benign hypertrophy of the prostate; adiposogenital dystrophy; cryptorchism; retarded puberty, eunuchoidism; impotence; male climacteric.

Dosage: By intramuscular injection, 500-1,500 units according to the condition being treated. May be given with Serum gonadotrophin in certain cases of amenorrhæa and functional sterility.

How Supplied: In 1,500- and 3,000-unit ampoules in boxes of three and ten, with solvent.

SUPPLY RESTRICTIONS: P.I, S.4B. NOTES: Store in a cool place. First Issued: September 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

Serum gonadotrophin (Leo)

Manufacturer: Leo Pharmaceutical Products, Denmark.
Distributor: Leo Laboratories, Ltd., 15 Clipstone Street,
London, W.1.

DESCRIPTION: Sterile white powder simulating in effect natural follicular-stimulating hormone.

INDICATIONS: In the female, primary and secondary amenorrhoa; functional sterility. In the male, oligospermia and asthenospermia.

Dosage: By intramuscular injection, 1,500–3,000 units according to the condition under treatment. May be given with *Chorionic gonadotrophin* in certain cases of amenorrhæa and functional sterility.

How Supplied: In 1,500- and 3,000-unit ampoules in boxes of three and ten, with solvent.

SUPPLY RESTRICTIONS: P.I, S.4B.

Notes: Store in a cool place. First Issued: September 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

EMESIDE syrup

Manufacturer: Laboratories For Applied Biology, Ltd., 91 Amhurst Park, London, N.16.

DESCRIPTION: Blackcurrant or orange-flavoured syrup containing 250 mgm. of ethylmethylsuccinimide per teaspoonful.

INDICATIONS: Petit mal epilepsy in children.

Dosage: 1 teaspoonful twice a day increasing as required.

SIDE EFFECTS: Occasional mild gastric disturbance and possible mental confusion with high doses subside on reduction or cessation of therapy.

How Supplied: In bottles of 8 and 40 fl. oz.

FIRST ISSUED: August 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

DECASERPYL "PLUS" tablets

Manufacturer: Roussel Laboratories, Ltd., 843 Harrow Road, London, N.W.10.

DESCRIPTION: Scored white tablets (marked D+ on the scored facc), each containing 10 mgm. of methoserpidine and 20 mgm. of benzthiazide. Hypotensive and diurctic.

1NDICATIONS: Essential hypertension, renal hypertension; toxæmia of pregnancy.

CONTRAINDICATIONS: Advanced liver or renal disease.

Dosage: One tablet three times a day. Up to five tablets may be given daily.

How Supplied: In metal strip foil, in cartons of twenty and 100. Supply Restrictions: P.I, S.4B.

First Issued: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

FLUBRON vaccine

MANUFACTURER: Pfizer, Ltd., Sandwich, Kent.

DESCRIPTION: Influenza polyvalent vaccine prepared from A/Asian/Singapore and B/England/59 strains of virus, and standardised to contain 12,000 hæmagglutination units per mil.

INDICATIONS: For protection against virus influenza caused by strains currently predominant.

CONTRAINDICATIONS: Persons allergic to egg and chicken protein.

Dosage: Adults, 1 mil. Children (5-12 years) 0.5 mil; (2-5 years) 0.25 mil. By deep subcutaneous injection. "Special risk" patients should receive a second dose 3-4 weeks after the first.

How Supplied: In ampoule of 1 mil (single or set of six) and multidose vial of 10 mils.

Notes: Retains its potency for 18 months if stored in the dark at 2-10° C. Should be well shaken and allowed to warm before use.

FIRST ISSUED: September 1961. Replaces previous formulation of FLUBRON.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, November 4, 1961

VALLERGAN injection and suppositories

Manufacturer: May & Baker, Ltd., Dagenham, Essex. Distributor: Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex.

DESCRIPTION: Ampoules, each containing 50 mgm. of trimeprazine tartrate in 2 mils solution. Suppositories, each containing 50 mgm., 75 mgm. or 100 mgm. Sedative, anti-emetic.

INDICATIONS: Pre-anæsthetic medication.

Dosage: Injection, 0·3-0·45 mgm. per 1 lb. of body weight, intramuscularly, 1½ hours before surgery. Suppositories (children), 2-3 mgm. per 1 lb. of body weight 1½ hours before surgery.

How Supplied: Ampoules in box of ten (2 mils). Suppositories in container of five.

SUPPLY RESTRICTIONS: P.I, S4B.

FIRST ISSUED: June 1961.

AMENDMENTS

DECASPRAY. Now supplied in 30-gm. and 90-gm. ærosol spray packs.

DULCOLAX TABLETS. Now supplied in containers of ten, thirty, 200 and 1,000.

HUMATIN SYRUP. Now supplied in bottles of 16 and 500 mils. LUCOFEN TABLETS. Recommended dosage amended to one tablet three times a day before meals.

Marevan tablets. Now available in strengths of 1 mgm. (brown, in container of 100); 3 mgm. (blue, 100, 1,000); 5 mgm. (red, 25, 100, 250); and 10 mgm. (yellow, 100).

NAVIDREX-K TABLETS. Add: The potassium chloride is contained in a slow-release core to avoid nausea and vomiting in its use, and the uncertainty of absorption if the tablet were enteric-coated.

DISCONTINUED

Influenza virus A (Asian) vaccine (Wright-Floming).

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, NOVEMBER 1: Most prices remained steady throughout the CRUDE DRUGS market during the week, despite the smallness of inquiry.

The steady tone reflects a considerable tight supply position in many commodities. Stocks of IPECACUANHA were difficult to obtain, particularly from source, though it must be added that there were not many buyers with firm orders. Spot Chinese MENTHOL was down by 2s. 6d. per lb. while Brazilian material was sixpence lower for ship-ment. The downward drift of the price of Pepper was halted. Other Spices were maintained at previous levels, with the exception of forward Tur-MERIC which was 2s. 6d. per cwt. less at 105s., c.i.f. Among AROMATIC SEEDS, Indian CELERY for November shipment again advanced by 5s. to 200s. per cwt.

LEMONGRASS climbed still higher during the week and at 21s. 9d. per lb., c.i.f., represented a gain of 1s. 9d. Formosan Citronella and Chinese Pepper-MINT were slightly easier.

ZINC OXIDE was reduced by 50s. per Elsewhere among PHARMACEUTI-CAL CHEMICALS, prices remained unaltered and trading quiet.

Pharmaceutical Chemicals

AMIDOPYRIN. — Per lb. 16s. 8d. for 5-cwt. lots; 1-cwt., 17s. 5d.; less than 1-cwt., 18s, 5d.

£50 5s. per ton; CARBONATE, £81 10s. for lump and £85 10s. for powder.

BARBITONE. — Less than 25-kilo lots, 8s. 6d. per kilo. Sodium derivative, 53s. 6d. per ki 56s. 9d. per kilo.

Chlorocresol.—Pharmaceutical quality, 7s. 7d. per lb. (1-cwt. lots).

COCAINE. — 16-oz. lots. HYDROCHLORIDE, 91s. 6d. per oz.; ALKALOID, 101s. per oz. Subject to D.D.A. Regulations.

CYCLOBARBITONE. — Lcss than 25 kilos: B.P.C., 73s. per kilo. CALCIUM, 85s. per kilo.

HEXOBARBITONE. — 25-kilo lots or over, 115s. per kilo.

ICHTHAMMOL.—B.P. from 2s. to 2s. 6d per 1b. in 1-cwt. lots as to origin and container.

Lacrose. — B.P. in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals, 225s. per

LONDON EXCHANGE RATES

At the opening on Tuesday

711 1110	opening on	
Amsterdam	Florins to £	10.12-10.12 1
Bombay	Shillings to	
	rupee	1/519-1/6六
Brussels	Francs to £	140.05-140.10
Copenhagen.	Kronor to £	19.37 - 19.37
Frankfurt	D Marks to £	$11.24\frac{1}{2}-11.24\frac{3}{4}$
Hong Kong .	Shillings to \$	1/2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Karachi	Shillings to	
	rupee	1/5 \ \ -1/6 \ \
Lisbon	Escudos to €	80-18-80-28
Malaya	Shillings to \$	2/3 18-2/4 75
Milan	Lira to £	1,7463-1.7473
Montreal	Dollars to £	2.901-2.901
*New York	Dollars to £	2.78-2.82
Oslo	Kronor to £	20.03 - 20.03
Paris	Francs to £	13.83-13.83
Stockholm	Kronor to £	14.541-14.543
7urich	Francs to £	$12 \cdot 16\frac{1}{3} - 12 \cdot 16\frac{1}{2}$
*Bank of Engla	and official limi	its. Bank rate: 65
per cent, from		
per cent, from	octooct 51	

MERCURY DERIVATIVES .- Per kilo, under hercory berivatives.—Fer kilo, under 50-kilo lots:—AMMONIATED MERCURY, B.P., lump or powder, 53s. 3d.; PERCHLORIDE, B.P.C. powder, 45s. 6d.; SUBCHLORIDE (calomel), B.P.C., 52s. 3d.; OXIDES, yellow, B.P., 55s.; red, B.P.C., 1949, 56s. 3d.

METHYL PHENOBARBITONE. — B.P.C., 95s. per kilo for less than 25-kilo lots.

NARCOTINE.—ALKALOID and HYDROCHLOR-IDE, 3s. 9d. per oz. (132s. kilo) for under 35-oz. lots.

OLEIC ACID.—B.P. grade, £175 10s. per ton (£179 10s. per ton in single drum lots).

OPIATES.—Home trade prices (per oz.) subject to D.D.A. Regulations:—

		35 oz ov	-	Un 35	
		5.	d.	s.	d.
Codeine	- 1				
PHOSPHATE		41	0	42	0
HYDROCHLORIDE		47	3	48	3
SULPHATE		47	3	48	3
ALKALOID		54	0	55	0
MORPHINE	- 1				
ACETATE		50	0	51	0
HYDROCHLORIDE		50	0	51	Ö
SULPHATE	- ::	50	0	51	ŏ
TARTRATE		60	0	61	0
ALKALOID	- ::	61	3	62	3
ETHYLMORPHINE		•	_	02	_
HYDROCHLORIDE		54	0	55	0
ALKALOID	- ::	63	3	64	3
DIAMORPHINE		05	_	04	5
ALKALOID	- 1	54	9	55	9
HYDROCHLORIDE	::	59	9	60	9

PENTOBARBITONE. — Under 25-kilo lots, 115s. per kilo; SODIUM, 120s.

PETHIDINE HYDROCHLORIDE. - Subject to D.D.A. Regulations, 229s. 2d. per 250 gm.

PHENOBARBITONE. — Spot rate 50-kilo lots, 47s. 6d. per kilo; 5-kilo, 50s. 6d. 500-gm., 54s. 6d. Sodium salt, 55s. 6d. per kilo for 5-kilo lots,

PHENYTOIN SODIUM.—More than 25-kilo lots are about 43s. per kilo.

PILOCARPINE.—In 1-kilo lots prices are: HYDROCHLORIDE, 1,375s. per kilo; NITRATE, 1,128s.

Procaine hydrochloride.—100-kilo lots, 45s, per kilo.

Quinalbarbitone.—Under 25-kilos, 130s.

QUINIDINE.—For 15 kilos or 500 oz. or more: -

Home Trade		Per kilo	Per 100 oz.
QUINIDINE		s. d.	s. d.
SULPHATE		199 1	564 6
ALKALOID CTYST.		260 8	739 1
ALKALOID precip.		263 9	747 9
HYDROCHLORIDE		223 0	632 1
HYDROBROMIDE		216 11	615 0
GLUCONATE		221 9	628 9

Prices include tins and cases and frec delivery U.K.

Quinine. — 1,000-oz, lots:—alkaloid, 3s, 8½d. per oz.; sulphate, B.P., 1932, 2s. 5d.; sulphate, B.P., 1958, 2s. 8½d.; bisulphate, 2s. 5½d.; dihydrochloride, 3s. 5d.; Hydrochloride, 3s. 1½d.; ETHYL CARBONATE, 4s. 1½d.; Hydrobromide, 3s. Quantities under 100 oz. plus threepence.

STRYCHNINE. — 100-oz. lots: ALKALOID and HYDROCHLORIDE, 10s. 6d. per oz.; SULPHATE, 9s. 6d.

SULPHACETAMIDE. -- Sodium derivative, about 40s. per kilo in 100-kilo lots.

SULPHAGUANIDINE. — 100-kilo lots, about 19s. 6d. per kilo.

SULPHANILAMIDE. - One-cwt. lots. 6s.

SULPHAPYRIDINE. - Five-kilo lots, 120s. per kilo.

Sulphathiazole. — 100-kilos, 32s. per kilo; 50 kilos, 33s.

SULPHOCARBOLATES.—SODIUM PHENOSUL-PHONATE, B.P.C., 1949 (powder), 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949 is

SULPHUR.—SUBLIMED FLOWERS, B.P., £50 ton; COMMERCIAL, £45; POWDER, £19 to £24; PRECIPITATED, B.P., £110; ROLL, £24 10s. All ex store.

SULPHURIC ACID.—Ninepence to 1s. 21d. per lb. in Winchesters.

THEOBROMINE. — ALKALOID in 50-kilos, 45s. per kilo; CALCIUM SALICYLATE, (123-kilos), 49s. per kilo; and SODIUM SALICYLATE. ATE, 46s.

THEOPHYLLINE.—12½-kilo lots: ALKALOID ANHYDROUS, 33s. per kilo and B.P., 32s. 6d.; AMINOPHYLLINE, 30s. per kilo, 12½ kilos, 31s. per kilo.

ZINC OXIDE.—Two-ton lots B.P. grade, £97 10s. per ton; 1-ton, £98 10s.

Alcohol

British spirit (fermentation grades) per proof gall.:

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.): where the minimum delivery is 2,500 proof gall. or over 3s. 9d.; 1,500, 3s. 10d.; 500, 3s. 11d. Prices are exclusive of duty and are for tank wagon lots. In 40-90-gall drums there is a surcharge of threepence per proof gall.

charge of threepence per proof gall.

Absolute Alcohol, 95.5 per cent., 74.5
o.p., from 4s. 11d. to 4s. 3d. for same quantities; the special high strength (99.9 per cent., 75.2 o.p.) from 4s. 5d. to 4s. 9d. (in drums). Doubly Rectified Alcohol (S.V.R.) 95.8 per cent., 68 o.p., from 3s. 11d. to 4s. 1d. R. R. Absolute Alcohol (re-rectified), 99.7 per cent., 75 o.p., 8s. per proof gall, net (for 40-gall, drum). Duty is £10 12s. 4d. per proof gall. plus 10 per cent. plus 10 per cent.

SYNTHETIC GRADES (supplied only buyers authorised by Customs and Excise to buy duty free) the 95 per cent, is from 3s. to 3s. 2d. and Absolute (99.5 per cent.), 3s. 3d. to 3s. 5d.

Methylated Spirit

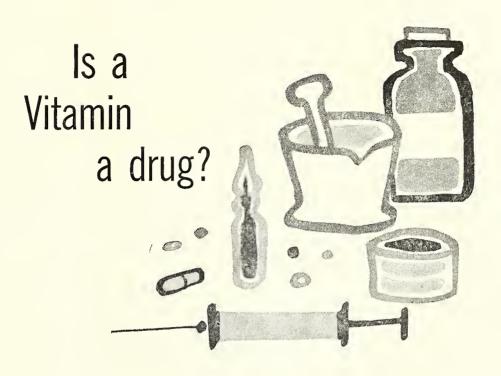
METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, 5s. 4d.; 100 gall. and under 500 gall., 5s. 8d.; 40 gall. and under 100 gall., 6s. 0½d.; 10 gall. and under 40 gall., 6s. 6½d.; 5 gall. and under 10 gall., 7s. 0½d. Strength 64 o.p., ½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 3½d., more than the above rates with 74 o.p. at 6s. 1½d.; 6s. 5½d.; 6s. 10d.; 7s. 4d. and 7s. 10d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 6s. 9d. (tank wagon) for 500 gall. to 8s. 1½d. (10 gall. drums) for 64 o.p. Industrial Methylated spirit: Strength to 8s. $1\frac{1}{2}$ d. (10 gall. drums) for 64 o.p.

Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 6½d.; 500 gall. in 40-gall. drums, 5s. 8½d.; 100 gall. and under 500 gall. (in drums), 6s. 0½d.; 40 gall. and under 100 gall., 6s. 5d.; 10 gall. and under 40 gall., 6s. 11d.; 5 gall. and under 10 gall., 7s. 5d. Pyridinised industrial methylated spirit:

Mineralised methylated spirit: Strength 64 o.p., in one delivery, 100 gall. and under 500 gall., 6s. 0½d.; 40 gall. and under 100 gall., 6s. 5d.; 10 gall. and under 40 gall., 6s. 11d.; 5 gall. and under 10 gall., 7s 5d

Terms.—Deliveries free and carriage paid on returned empties; net cash.



A vitamin is certainly not a food, since it neither contributes to the structure of the body nor is it oxidised to provide calories.

But, as a vital constituent of foods, it must be termed a nutrient, and in this sense foods containing vitamins are not regarded as drugs. This is the orthodox view taken by the Ministry of Health and expressed at rather greater length by the Standing Joint Committee on the Classification of Drugs.

On the other hand, synthetic vitamins are available in potencies not commensurate with the concentrations in foods. One tablet of aneurine may contain, for example, 100 mg. or three times the amount of this vitamin normally present in the healthy human body.

And its use? Not as a food but to cure disease. It has, in fact, been shown that whereas a small daily intake in food is enough to protect from a deficiency disease, tissue insufficiencies, whether accompanying deficiency disease or some other manifestation, demand very much more. Therapeutic doses of B₁ may be 100-1000 times the

daily protective level and of vitamin C, 100-200 times.

Is a vitamin then, a drug?

One thing is certain: nobody knows and understands more about vitamins than the research team at Vitamins Limited. Over a long period of years the Company has specialised in the research into and development of vitamins and now produce an unrivalled range of vitamin products, including:

FOR NUTRITIONAL SUPPLEMENTATION
Bemax, Vitavel Syrup, Juvel, Pregnavite.
PRODUCTS OF THE B COMPLEX
Becovite, Befortiss.
PRODUCTS FOR THERAPEUTIC PURPOSES
Parentrovite, Orovite, Tropenal, Dal-Tocol.
National Health Service

In no case is the cost of a Vitamins Limited preparation greater than, and in some cases it is less than, that of the official equivalent preparation. There is no official equivalent to some Vitamins Limited specialities.



For the full range of products and the price list, write to Vitamins Limited, (Dept. AA3), Upper Mall, London, W6

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Make sure you are stocked and ready with the season's sales-winning shaver—the NEW SHAVEMASTER. Backed by powerful, hard-hitting Christmas advertising and promotion campaigns, it will bring you the highest Shaver profit of all.

DISPLAY AND SELL SUNBEAM IN THE PRESS! Over 99 MILLION advertisement circulation! That's the tremendous weight of appeal

to women gift shoppers that will appear in hardselling, large spaces in national newspapers and

magazines during the coming weeks.

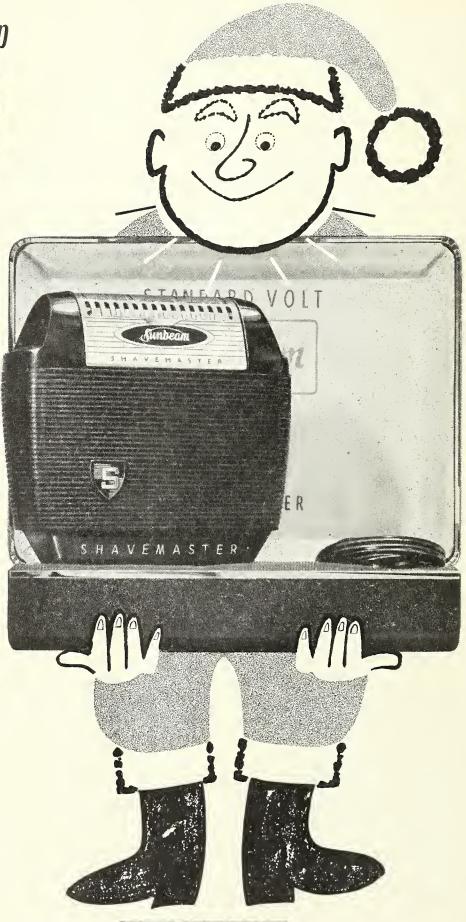
ON T.V. Lively, forceful magazine and spot commercials—directed to the maximum audiences—will make all men want to own a Sunbeam... will make all women want to buy a Sunbeam as a gift for their menfolk, in preference to any other make.

SO/SO CO-OPERATIVE ADVERTISING! Linked to the National campaign, FREE blocks are available in 6" and 4" double column sizes, and Sunbeam will pay half the cost of the local press insertion.

NEW DISPLAY MATERIAL AND LEAFLETS. Display stands, crowners and leaflets—all in full colour—are available now to attract Sunbeam Shaver customers to your windows and your counter. Each piece is an attractive sales-winner!

MICRO-THIN SHAVING HEAD: HOLLDW GROUND SWEEP BLADE: POWERFUL ARMATURE MOTOR: LUXURY PRESENTATION CASE: FULLY GUARANTEED: £2 TRADE-IN ALLOWANGE.

List Price PLUS P.T.
Shavemaster Standard 190-250v AC/DC £8.17.7 £1.15 8
Shavemaster Multi-Volt 110-250v AC/DC £9.18.8 £2. 0.0



Best sell



Make sure of your Christmas profit by ordering your stock NOW from your usual Wholesaler!

Dept. C.D., The Advertising Manager, Sunbeam Electric Limited, Nerston, East Kilbride, Glasgow, Scotland.

Crude Drugs

- Spot: Spanish napellus, ACONITE. 2s. 6d. per lb.

AGAR.—Kobé No. 1, 14s. 6d. per lb. in bond; shipment, 14s. 3d., c.i.f.

ALOES. — Cape primes, spot, 175s. per cwt.; shipment, 147s. 6d., c.i.f.; extra primes, 180s., c.i.f. Curação, spot, 450s.; shipment, 425s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 23s. COPAIBA: Spot scarce and shipment not offering. Peru: Spot, 8s. 9d. in bond. Tolu (genuine as imported), 35s. from 12s. to 17s. 6d. as to analysis. 35s.; B.P.,

BELLADONNA.—HERB, 1s. 9d. per lb., in bond. Leaves, 1s. 8d.; shipment, new crop 1s. 10½d., nominal. Root, good testing new-crop nominally, 1s. 9d. landed.

BENZOIN. — Sumatra block, spot £20 to £28 as to quality.

Buchu. — Soot new crop. 4s. 3d. per b.; shipment, 4s., c.i.f.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

Cascara. — Spot, 1960 peel, 270s. per cwt.; 1961 peel, for shipment, 255s., c.i.f.

Cassia. — Fistula, 105s. per cwt lignea (whole), for shipment, 335s., c.i.f.

CHAMOMILE.—Belgian, 6s. 6d. to 7s. 6d. er lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK.—Thin natural, 1s. 9d. per lb.; shipment, 1s. $6\frac{1}{2}$ d., c.i.f.

CHILLIES. - Nigerian, 200s. per cwt. Mombasa, 330s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 1\(\frac{1}{4}\)d.; 3 O's, 4s. 7\(\frac{1}{4}\)d.; Q, 4s. 3\(\frac{3}{4}\)d.; quillings, 3s. 3\(\frac{3}{4}\)d.; featherings,

CLOVES. — Zanzibar spot, 2s. $9\frac{1}{2}$ d. pcr lb.; shipment, 2s. $7\frac{1}{4}$ d., c.i.f.

COCHINEAL.—Black-brilliant, 8s. per lb., spot; Peruvian silver-grey, 4s. 6d.

Cocillana. — Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS. — Purpurea for shipment, old crop, 11d.; new crop, 2s. 4d. per lb.,

ELEMI.--Spot, 1s. 9d. per lb. Shipment, 1s. 6d., c.i.f.

ERGOT. — Portuguese, 8s. per lb., c.i.f., for prompt shipment; spot, 8s. 6d.

Frangula.—Spot, 87s. 6d. per cwt.

GENTIAN.—Spot, French, 150s. per cwt. GINGER.—(Per cwt.) African. spot, 245s.; shipment, 220s., c.i.f., nominal; Jamaican No. 3, spot, 245s. Cochin, shipment, not offering; spot, 152s. 6d.

GUM ACACIA. — Kordofan cleaned sorts, 142s. 6d. per cwt., spot; November–December shipment, 127s., c.i.f.

Henna. — Indian, spot. 95s. per cwt.; shipment, 66s., c.i.f.

Honey. — Australian light amber, 107s. to 112s. per cwt. and medium amber, 98s. to 102s. Argentine, 125s. to 130s. Jamaican, 115s. to 120s.; Canadian clover, 150s. to 155s., all ex warehouse.

IPECACUANHA,—Shipment: Costa Rican, 69s. 6d. per lb., c.i.f.; Nicaraguan, 66s. 6d., c.i.f.; Colombia and Brazil not offering. Spot: Costa Rican, 75s.

JUNIPER BERRIES. — Italian, 100s. per cwt.; German, 120s.

Karaya. — No. 1 gum. spot 300s. per cwt.; No. 2, 225s.
Lanolin. — Anhydrous B.P. is from

140s, to 155s, per cwt, in 1-ton lots.

LEMON PEEL.—Spot, 2s. 9d. per lb.

LIQUORICE.—Natural root: Persian on the spot 50s. per cwt.; Anatolian, 57s. 6d.; Russian, 65s. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

MENTHOL.—Chinese: spot, 57s. 6d. per lb., duty paid; afloat, 53s. 6d., c.i.f.; shipment, 53s., c.i.f. Brazilian, 47s. 6d., in bond; shipment, 47s. 6d., c.i.f. (November–December). Formosan, 49s., in bond; prompt shipment, 47s. 6d. per lb., c.i.f.

MERCURY. - About £60 per flask of

NUTMEGS. — West Indian 80's, 9s. 6d. per lb., spot; sound unassorted, 7s. 3d.; defectives, 6s. 3d.

NUX VOMICA. Shipment (per cwt.), Cochin, 65s, c.i.f.

Orange Peel. — Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian, 11d.; Spanish, 1s.; bitter ribbon,

ORRIS ROOT.—Florentine, 335s. per cwt. PEPPER.—White Sarawak, spot, 3s. 4d. per lb.; October shipment, 3s. 2d., c.i.f. Black Sarawak, spot, 3s. 1½d.; shipment, 2s. 6½d., c.i.f. Black Malabar, 400s. per cwt. spot and new crop, November-December shipment, 330s., c.i.f.

PEPPERMINT. — Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 588s. per cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi* 190s, per cwt., spot; *Peltatum*, 435s, per cwt.

QUILLAIA.—Old crop 220s. per cwt. on spot. New crop quotations from origin, January—April 1962 shipment, 175s. cwt.,

RHUBARB. — - Chinese small rounds from 5s. 6d. to 6s. 9d. per lb. on the spot.

SAFFRON. — Mancha selecta, 140s. per lb., spot.

Ib., spot.

SEEDS. — (Per cwt.). Anise.—Egyptian, 225s., duty paid. Caraway.—Dutch, 155s., duty paid. Celery.—Indian, 210s., spot; shipment advanced to 200s. Coriander.—Moroccan, 130s., duty paid; Indian bold 97s. 6d., spot; shipment, Moroccan, 112s. 6d., and Indian bold, 82s. 6d., c.i.f. Cumin.—Indian, 175s., spot; Iranian, 165s., duty paid. Dill.—Indian, 100s., spot; shipment, 84s., c.i.f. Fennel.—Indian, 105s., spot; shipment, 86s., c.i.f. Fenugreek. — Moroccan, 97s. 6d., duty paid; shipment, 79s. 6d., c.i.f. Mustard.—English new crop, 75s. to 82s. 6d., according to quality. according to quality.

SENEGA. — Spot 17s. 6d. per lb.; shipment, 16s, c.i.f.

ment, 16s, c.i.f.

SENNA.—Tinnevelly LEAVES, new crop, spot: Prime No. 1, 1s. 10d. per lb.; prime No. 2, 1s. 3d.; No. 3, f.a.q., 11d. and primes, 1s. 0½d. Pods: new crop on spot, 2s. 2d. per lb. for hand-picked No. 1; 1s. 7½d. for No. 2 and manufacturing f.a.q., 1s. 2d. Alexandria pods: Manufacturing, 1s. 6d.; hand-picked, 4s. 6d. to 7s. 6d. per lb.

SLIPPERY ELM.—Bark, 3s. 6d. per lb. landed value.

SQUILL. — White 75s. to 85s. pcr cwt. spot, as to quality.

STRAMONIUM.—Indian LEAVES 60s. cwt. spot. Dutch 0.5 per cent. alkaloid, 93s., c.i.f.

STYRAX, — Spot, 25s. 9d. per lb., shipment, 24s., c.i.f.

TURMERIC. — Madras finger, 117s. 6d. per cwt.; shipment, 105s.. c.i.f. quoted.

Valerian Root.—Spot: Belgian, whole for prompt shipment, 145s. per cwt., c.i.f. Indian, 180s., spot.

Waxes. — (Per cwt.). Bees'.—Dar-es-Salaam, spot, 425s.; shipment, 390s., c.i.f. Abyssinian, 370s. in bond; shipment, 370s., shipment, 370s., c.i.f. Sudanese, spot, 410s., duty paid; shipment, 370s., c.i.f. Candelilla, spot, 465s.; Carnauba, fatty grey, spot, 417s. 6d.; shipment, 395s., c.i.f.; prime yellow, spot, 670s. quoted; shipment, 640s., c.i.f.

WITCH HAZEL LEAVES. - New crop, 2s. 11d. per lb., spot.

Essential and Expressed Oils

Almond.—Moroccan, 6s. 6d. per lb., duty paid.

Anise.—Chinese, 7s. $10\frac{1}{2}$ d. pcr lb., spot; shipment, 7s. 10d., c.i.f.

BERGAMOT.—Spot, from 72s. 6d. per lb. BIRCH TAR.—Rectified 8s. pcr lb.

Bois de Rose.-Brazilian, 13s. 9d. per lb. on the spot and 13s, 6d., c.i.f.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot, 56s. 6d. per lb.

Cananga.—Spot, from 35s. per lb.

CARDAMOM. — From 375s, per lb. for English-distilled and 260s, for imported.

Celery seed. — Dutch oil, 90s. per lb. and Chinese, 65s.

CITRONELLA. — Ceylon, spot, 6s. 4d.; shipment, 6s. 3d. per lb., c.i.f. Formosan, spot, 8s. 4½d., in bond; shipment, 8s. ½d., c.i.f.

CLOVE.—Madagascar leaf, spot, per lb., duty paid; shipment, 6s, 7½d., c.i.f. RECTIFIED 87–88 per cent., 12s. Distilled bud-oil, English, B.P., 27s. for 1-cwt. lots.

DILL.—Imported, 38s. 6d. per lb., spot. EUCALYPTUS.—Spanish, 3s. to 3s. 6d. per lb. on spot. Chinese, 3s. 3d., all duty paid.

Fennel.—Spanish sweet, spot, 10s. per lb. GERANIUM.—Bourbon, 85s. to 95s. per

lb. on the spot. GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d. duty paid.

Grapefruit.—Florida, 18s. per lb.

JUNIPER. — B.P.C. 1949 oil is from 10s. per lb. on the spot. English-distilled, 150s. JUNIPER WOOD, from 5s.

Lemon. — Californian cold-pressed from 26s. per lb., spot; Sicilian cold-pressed about 25s,

Lemongrass. — Spot nominal. November shipment, 21s. 9d. per lb., c.i.f.

LIME. — West Indian distilled, 48s. per lb. on the spot.

NUTMEG.—Imported B.P. oil is from 46s. to 90s. per lb. as to source. English distilled, 140s.

OLIVE.—Spot, 19s. to 19s. 6d. per gall. in drums ex wharf; shipment, £190-£205 per 1,000 kilos, f.o.b. Spanish port.

Orange.—Spot quotations of sweet oil include Floridan at 2s. 9d. per lb.; West Indian, 3s. 6d.

PALMAROSA. — Spot, 37s. 6d. pcr lb.; shipment, 36s., c.i.f.

PEPPERMINT. — .Arvensis: Chinese spot, 30s.; shipment, 26s., c.i.f. Brazilian spot, 16s. 9d.; shipment, 16s. 6d., c.i.f. Piperita: Italian, 48s. per lb., spot nominal; shipment new crop, upwards of 60s. for best oil asked. American from 28s. to 30s. per lb. as to make.

Petitgrain.—Paraguay, 18s. 6d. per 1b., spot; shipment, 17s. 6d., c.i.f.

PIMENTO — English-distilled berry from 150s, per lb; imported, 32s, 6d. Rectified leaf, 16s, per lb.

Sandalwood. — East Indian, spot, 70s. to 172s. 6d. per lb.; forward, 167s. 6d., c.i.f.

SPEARMINT.—American oil on the spot

UNITED STATES REPORT

New York, October 31: Brazilian MENTHOL declined by another five cents to \$7.15 a lb. A 15-cent price cut brought the cost of BRUCINE down to 75 cents per oz, for the ALKALOID and 67 cents for the SULPHATE. Higher per lb. among ESSENTIAL OILS were Bourbon Geranium at \$13, up 50 cents, and Lavender spike at \$1.75, up 15 cents. Re-sale LEMON OIL at \$3.50 was down 35 cents.

PRINT AND PUBLICITY

PUBLICATIONS

Price Lists

May & Baker, Ltd., Dagenham, Essex: Amendment No. 1 to 1961 price list of medical products. Pp. 2.

Booklets and Leaflets

CORONET, LTD., 308 Summer Lane, Birmingham, 19: Counter leaflet-" Coronet takes you train snapping."

ILFORD, LTD., Ilford, Essex: Counter leaflet -"Every camera is the better for an Ilford

Vacco, Ltd., Grosvenor Gardens House, London, W.1: "The Vacuum Flask"—14-p. typescript giving information on background history, development, manufacture, use and users vacuum flasks.

Catalogues

BRUCE STARKE & Co., LTD. (Dragoco Holzminden, W. Germany), 5 Fenchurch Street, Lon-

den, W. Germany), 5 Fenchurch Strect, London, E.C.3: The Extrapone Vademecum—list of Dragoco "extrapones" for use in cosmetics.

HILGER & WATTS, LTD., 98 St. Pancras Way, London, N.W.1: Addition to loose-leaf catalogue-section P, giving details of types, sizes, mountings and resolutions of Hilger crystal phosphors and crystal-photomultiplier assem-

KODAK, LTD., Kingsway, London, W.C.2: Kodak light filters. Pp. 12.

MAY & BAKER, LTD., Dagenham, Essex: Materials for gas ehromatography, standards and data for Embaphase stationary phases and Embacel kieselguhr.

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmaeists. The British Drug Houses, Ltd., Graham Street, London, N.1.: "Secrosteron . . . the original safe oral progestational agent; Mepilin . . . oral androgen/æstrogen with valuable meta-

bolic effects " (4-p. folders).

British Schering, Ltd., 229 Kensington High
Street, London, W.8: "Untie the knot of pain
... Neutradonna" (folder).

Camben Chemical Co., Ltd., 61 Gray's Inn Road, London, W.C.1: "A treatment for bæmorrhoids in general praetice" (4-p. reprint

memorrhoids in general practice "(4-p, reprint of article by Dr. D. M. Mustard in Brit. J. clin. Pract. Vol. 15, No. 9).

THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10: "Duphaston . . . an oral progestational substance free from masculinising and virilising side-effects" (12-p, booklet).

GEIGY PHARMACEUTICAL Co., LTD., Wythenshawe, Manchester, 23: "Anturan . . . the modern treatment of chronic hyperuricæmía; Butazolidin . . . for the prompt termination of the acute attack of gout; Delta-Butazolidin . . . combined low dosage antirhcumatic " (4-p. folder); "Tanderil . . . anti-inflammatory agent " (24-p. booklet); "Tofranil . . , fundamental in the treatment of depression in general practice " (4-p. folder).

MAY & BAKER, LTD., Dagenham, Essex: "Oral cholecystography . . . Biliodyl," "Intravenous anæsthesía . . . Intraval sodíum," "Gold therapy . . . Myoerísin," "Tropical medicine



PACK, OUTER AND SHOWCARD: The complete presentation of Pel hand cream (Imperial Chemical Industries, Ltd., pharmaeeuticals division, Wilmslow, Ches).

. . . Nivaquine," "Pre-anæsthetic . . . Pamergan," "Psychiatry . . . Stemetil," "Oral anti-pruritic therapy, oral premedication in children . . . Vallergan " (booklets); " Flagyl . . . in trichomoniasis" (blotter); "but itching is best relieved orally with Vallergan" (4-p. folder).

PHARMETHICALS (LONDON), LTD. (Schering, A.G., Berlin, Germany), Victoria Way, Burgess Hill, Sussex: "Primolut N," "Flurymal," "Primolut Depot," "Primodos" (product reference cards in transparent plastic folder); "Flurymal . . . for the treatment of non-specific vagini-tis," "Scheriproct . . . for the treatment of proctological disorders" (8-p. booklets).

WILLIAM R. WARNER & Co., LTD., Eastleigh, Hants: "The treatment of complex melancholy . . . Nardíl " (4-p. folder).

DISPLAY MATERIAL

CHARNWOOD LABORATORIES (division of Vantorex, Ltd.), Morley Street, Loughborough, Leics: Counter/window display cards for Super Plenamins—"For radiant health and vitality, new chewable Super Plenamins," Card CP1 10 x 7 in.; card CP2 7 x 5 in. (with recess to take

D. & W. GIBBS (U.K.), LTD., Hesketh House, Portman Square, London, W.1: Display outers for Two Step shampoo — one for thirty-six sachets, another for three bottles and a composite one for twenty-four sachets and three

GEORGE GOODMAN, LTD., Robin Hood Lane, Hall Green, Birmingham, 28: Display box for Kirbigrips — measuring $4\frac{1}{4}$ x $3\frac{1}{4}$ in., holds twelve "handipaks" of plastic-top grips.



HELPING THE CHEMIST: A new showcard and price crowners for Euthymol tooth-paste, supplies of which are reserved by the manufacturers, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, to pharmaceutical chemists.

COMMERCIAL TELEVISION

Figures in the columns represent number of appearances of the product during the week.

November 12-1	18		London	Mìdland	North	Scotland	Wales	South	Z Z	Anglia	Ulster	Westward	Border	Grampian
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Andrews liver salt	•		2	2	2	2	3	2	2	2	2	3	2	2
Askit powders	• / / / /		_	_	_	14	_	_	_	_	_	_	7	-
Aspro	* * / *		5	5	5	5	5	3	5	6	-	5	_	_
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Horlicks			4	8	3	2	4	4	3	4	3	2	2	2
Kleencx			3	6	5	2	3	2	5	4	3	4	4	3
Loxene hair cream			3	2	4	2	2	2	2	2	3	2	2	1
shampoo			1	4	3	3	3	3	3	1	3	2	1	1
Macleans tooth-paste	• • • • •		3	3	3	2	3	3	2	3	3	3	3	2
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COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, November 5

PHARMACEUTICAL UNION, Hall, Town Hall, Worthing, at 2.30 p.m. Area meeting.

Monday, November 6

COLCHESTER BRANCH, PHARMACEUTICAL SOCIETY, George hotel, Colchester, at 8 p.m. Professor W. H. Linnell on "Therapeutic Activity and Chemical Structure."

HENDON AND EDGWARE BRANCH, PHARMACEUTICAL Society, Hendon Hall hotel, Ashley Lane, London, N.W.4, at 8 p.m. Dr. A. G. Mezey "Recent Advances in the Drug Treatment of Mental Illness,"

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Woolwich Polytechnic, Thomas Street, London, S.E.18, at 6.45 p.m. Professor C. W. Davies on "Ion Exchange Resins."

LONDON SECTION, SOCIETY OF CHEMICAL INDUS-TRY, 14 Belgrave Square, London, S.W.I, at 6.30 p.m. Dr. N. Goodway (Atomic Energy Research Establishment, Harwell) on U,K.A.E.A. and its Relations with Industry.'

NORTH STAFFS BRANCH, PHARMACEUTICAL SOCIETY. North Stafford hotel, at 7.45 p.m. Branch resolutions and discussion of the report of the Committee on the General Practice of Pharmacy.

Pharmacy, Jorwich Branch, Pharmaceutical Society, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Mr. R. W. Unwin (Philips Electrical, Ltd.) on "Flash Photography." NORWICH

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY Medico-Chirurgical Society's lecture room, 64 St. James Street, Nottingham, at 7.30 p.m. Dr. G. Gordon-Napier on "Corneal Grafting" (illustrated).

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Freedom Fields Hospital, Greenbank, Plymouth, at 7.30 p.m. Dr. D. Harcourt on penicillin (refresher course lecture).

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY. County hotel, Chelmsford, at 7.45 p.m. Mr. J. C. Bloomfield (a member of Council) on "Council and the Membership."

STOCKPORT BRANCH, PHARMACEUTICAL SOCIETY, Warren Bulkeley hotel, Warren Street, Stockport, at 7.45 p.m. Mr. D, C. Wollman (department of audiology, Manchester University) on "Recent Developments in the Education of Deaf Children."

WEMBLEY BRANCH, PHARMACEUTICAL Town Hall, Wembley, at 8 p.m. Dr. L. L. Banks (Allen & Hanburys, Ltd.) on "Medical Problems in Pharmaceutical Practice."

Tuesday, November 7

CAMBRIDGE AND HUNTINGDON BRANCH, PHARMACEU-TICAL SOCIETY, post-graduate lecture theatre, Addenbrooke's Hospital, Cambridge, at 8 p.m. Extension course, Mr. H. F. Grundy (lecturer in pharmacology, Cambridge University) on "Drugs Affecting Renal Function,"

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY AND WEST HAM ASSOCIATION, Swan hotel, Stratford Broadway, London, E.15, at 8 p.m. Dr. A. H, Beckett (head of the school of pharmacy, Chelsea College of Science and Technology) on "Pharmacy and Scenery in the Middle East,"

GLASGOW BRANCH, INSTITUTE OF PACKAGING, at 2.30 p.m. Visit to Airdrie factory of Boots Pure Drug Co., Ltd. GLASGOW PHARMACY CLUB, Craig's tea rooms,

453 Sauchiehall Street, Glasgow, C.2, at 7.30 p.m. Whist drive.

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Blue Bird café, Parliament Street, Harrogate, at 7,30 p.m. Further report on the British Pharmaceutical Conference by Mr. D. Dinwoodie, Mr. R. E. Collard (Boots Pure Drug Co., Ltd.) on "Pharmaceutical Developments."

PONTYPRIDD AND RHONDDA VALLEY PHARMACISTS'
ASSOCIATION, New Inn hotel, Pontypridd, at
7.30 p.m. Dr. J. Davoll (Parke, Davis & Co.)
on "The Chemotherapy of Cancer."

Salisbury Branch, National Pharmaceutical Union, Old House Restaurant, 47 New Street, Salisbury, at 7.45 p.m. Election of officers.

WORCESTER CITY AND COUNTY BRANCH, PHARMA-SOCIETY, Talbot hotel, Barbourne Road, Worcester, at 8 p.m. Cosmetic demonstration arranged by Max Factor, Hollywood and London (Sales). Ltd.

Wednesday, November 8

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY. Norbreck Hydro, at 7.30 p.m. Annual whist drive, dinner and dance.

Bradford Institute of Technology, Pharmacy

DEPARTMENT, College Hall, Institute of Technology, Great Horton Road, Bradford, 7, at p.m. Prizegiving ceremony. Address by Professor E. Shotton (London University).

CHELSEA PHARMACY ASSOCIATION, School of Pharmacy, Chelsea College of Science and Tech-Manresa Road, Chelsea, London, S.W.3, at 7.30 p.m. Annual reunion.

FIFE and DUNDEE BRANCHES, PHARMACEUTICAL SOCIETY, Anthony's hotel, Kirkcaldy, at 6.30 p.m. Joint meeting. Address by Mr. M. M. McNeill (sccretary Pharmaceutical Standing Committee (Scotland)).

FOOD GROUP, SOCIETY FOR CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.15 p.m. Dr. H. E. C. Powers on "Crystallisation of Sugress" of Sucrose."

GLASGOW AND WEST OF SCOTLAND BRANCH, PHAR-MACEUTICAL SOCIETY, Students' Union, Royal College of Science and Technology, at 7,45 p.m. Mr. M. C. L. Cross on "Some Aspects of Chronic Bronchitis."

MEDWAY BRANCH, PHARMACEUTICAL SOCIETY, Central hotel, Rochester, at 7.30 p.m. Annual dinner and dance.

NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Medico-Chirurgical Society's lecture room, 64 St. James Street, Nottingham, at 7,30 p.m. Film show.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, College of Technology, Pond Street, Sheffield, 1, at 7.30 p.m. Fifth of six lectures on "Modern Pharmacology for Pharmacists."

SWANSEA AND WEST GLAMORGAN BRANCH, PHAR-MACEUTICAL SOCIETY, Mackworth hotel café, Swansea, at 7.45 p.m. Address by Mr. A. Howells (chairman, National Pharmaceutical

UNIVERSITY OF LONDON, Post-graduate Medical School, at 2 p.m. Dr. C. P. Stewart on "Acid-Base Metabolism in Modern Terms."

WESTERN PHARMACISTS' ASSOCIATION, Great Western Royal hotel, Paddington Station, London, W.2, at 7.30 p.m. Dr. F. E. Camps (a Home Office pathologist) on "Accident, Suicide or Murder ? "

Thursday, November 9

ABERDEEN BRANCH, CHEMICAL SOCIETY, ROYAL INSTITUTE OF CHEMISTRY and SOCIETY OF CHEMICAL INDUSTRY, Marischal College, Aberdeen, at 8 p.m. Dr. A. F. Crowther on "The Discovery of New Drugs."

YRSHIRE BRANCH, PHARMACEUTICAL SOCIETY,

Parkstone hotel, Prestwick, at 7.30 p.m., Mr. R. Mackay (an inspector of the Pharmaceutical Society) on "Pharmacy and Poisons Acts in Everyday Practice."

BEDFORD BRANCH, PHARMACEUTICAL SOCIETY, outpatients' department, Lister Hospital, Hitchin, at 7.45 p.m. Discussion on resolutions for Branch Representatives' meeting. Film: "And the Earth shall give back Life."

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIA-TION and BRANCH, Victoria hotel, New Brighton, at 7.30 p.m. Dance.

BRADFORD INSTITUTE OF TECHNOLOGY, DEPARTMENT OF PHARMACY, Bradford, 7, at 8 p.m. Third in a series of six lectures on "The Pharma-cology of Modern Drugs," Mr. I. H. Lester on the physiology and mechanisms of the kidney.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun hotel, Hanworth Road, Hounslow, at 8 p.m. Mr. L. Priest (Department of Pharmaceutical Sciences) on "Modern Drug Treatment."

ISLE OF WIGHT BRANCH, PHARMACEUTICAL SOCIETY, Hotel Ryde Castle, Ryde, at 7.15 p.m. Annual dinner and dance.

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Croydon Technical College, Fairfield, Croydon, at 7 p.m. Mr. R. B. Collins on "Modern Colour Photographic Processes,"

LEFDS BRANCH, PHARMACEUTICAL SOCIETY, Griffin hotel, Leeds, at 8 p.m. Mr. J. B. Grosset (a member of Council) on "Public Relations."

MANCHESTER AND SALFORD BRANCH, PHARMACEUTI-CAL SOCIETY and PHARMACEUTICAL ASSOCIATION, Manchester University, at 8 p.m. Refresher course. Dr. W. Brockbank on "Drug Treatment of Diseases of the Lungs."

NEWCASTLE AND NORTHUMBERLAND BRANCH, PHAR-MACEUTICAL SOCIETY, No. 3 chemistry theatre, King's College, Newcastle-on-Tyne, at 7.30 p.m. Mr. H. Miller on "Behind the Iron

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, George hotel, George Street, Nottingham, at 7 p.m. Annual dinner and dance.

PHARMACEUTICAL SUBJECTS GROUP, ROYAL SO JETY OF HEALTH, 90 Buckingham Palace Road, London, S.W.1, at 6 p.m. Election of officers and committee

READING BRANCH, PHARMACEUTICAL SOCIETY, Tudor café, Northbrook Street, Newbury, at 7.45 p.m. Dinner followed by branch resolutions and films.

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, Slough, at 8 p.m. Dr. A. Austin Eagger on "Industrial Medicine."

SOMERSET BRANCHES, PHARMACEUTICAL SOCIETY and NATIONAL PHARMACEUTICAL UNION, Moors café, Taunton, at 3.30 p.m., N.P.U. meeting; at 5,30 p.m., Tea; at 6,30 p.m., Joint meeting. Mr. A. Aldington (a member of Council) on The Mixture as Before."

SOUTHERN AREA BRANCH, INSTITUTE OF PACKAG-Bonnington hotel, Southampton Row, London, W.C.1, at 6.30 p.m. Mr. J. Hanworth (Mather & Crowther, Ltd.) on "Packaging in Relation to Marketing and Advertising."

THAMES VALLEY BRANCH, PHARMACEUTICAL SOCIETY, Winthrop House, adjoining Surbiton station, Surbiton-upon-Thames, Surrey, at 7.45 p.m. Dr. A. H. Beckett (head of the school of pharmacy, Chelsea College of Science and Technology) on "Pharmacy in America and Britain—A Comparison and Contrast" (illustrated).

Friday, November 10

BIRMINGHAM BRANCH, CHEMICAL SOCIETY, Chemistry department, Birmingham University, at 4.30

p.m. Professor H. N. Rydon on "The Active Centres of Enzymes."

CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Greyhound hotel, B.p.m. Mr. W. R. Roberts (chief inspector of the Pharmaceutical Society) on "A Pavior of the Pharmaceutical Society) on "A Review of Poisons Law."

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF Women Pharmacists, 2 Bluecoat Chambers, School Lane, Liverpool, 1, at 7.45 p.m. Mr. J. R. Dale on "The New Poisons Regula-

NORTHERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY and INVERNESS PHARMACISTS' ASSOCIA-TION, Royal hotel, Inverness, at 8 p.m. Discussion on "The Report on the General Practice of Pharmacy."

PORTSMOUTH CHEMISTS' CRICKET CLUB, Cam-

bridge ballroom, Southsea, at 8 p.m. Dance.

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY of Great Britain, 36 York Place, Edinburgh, at 7.45 p.m. Professor J. W. Howie (professor of bacteriology, Glasgow University) on "Infections Acquired in Hospital."

Advance Information

LONDON MEDICAL EXHIBITION, Royal Horticultural Society's New Hall, Westminster, London,

S.W.1. November 13-17.

FACTORY EQUIPMENT, HEATING, VENTILATION AND THERMAL INSULATION EXHIBITION, Earls Court, London, S.W.5, November 13-18.

BUILDING EXHIBITION, Olympia, London, W.14. November 15-29.

DISPLAY PRODUCTION AND SCREEN PRINTING EXHIBITION AND PRODUCT FAIR, Mayfairia Rooms, Bryanston Street, London, W.1. November 27 to December 1.

WHOLESALE BUYERS' GIFT FAIR, Mount Royal hotel, London, W.1. December 11-14.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," October 25

Sulphonylurethanes and a process for preparing them, Farbwerke Hoechst A.G. 884,738.

Pharmaceutical compositions comprising an alkylamino substituted barbituric acid and salts thereof. Abbott Laboratories, 884,576.

Steroids and the manufacture thereof. Upjohn Co. 884,276-549.

Triiodophenyl-propionic acids, and x-ray contract media comprising same. Schering, A.G. 884,623. Pyridazinone. Norwich Pharmaceutical 884,605.

Pharmaceutical compositions comprising 5:5-hexamethylenehydantoin. Imperial Chemical Industrics, 884,629.

Pharmaceutical and veterinary compositions dithiocarbamoylhydiazine derivatives. Imperial Chemical Industries. 884,610.

6-methyl steroid compounds, British Drug Houses, 884.544

Thiopivalic acid esters, and process for the preparation thereof. Imperial Chemical Industries. 884,414.

Amines and processes for their manufacture, CIBA, Ltd. 884,663.

Quinone derivatives, CIBA, Ltd. 884,258.

Hydrazinium compounds, their production and pharmaceutical compositions containing them. W. R. Grace & Co. 884,667.

kin-condition composition. Pharmaccutical Co. 884,688. Skin-condition Warner-Lambert

Thomae, G.m.b.H. Substituted ureas, Karl 884,439.

Antibiotic compositions. Glaxo Laboratories, Ltd. 884,713.

Decomposition of iron sulphate, British Titan Products, Ltd. 884,703.

Process for the production of L(-)-α-amino-capro-lactum, J. R. Geigy, A.G. 884,299. Unsaturated aliphatic aminodiols and process for

their manufacture. CIBA, Ltd. 884,461.

Trifluoromethyl phenothiazines. Olin Mathieson Chemical Corporation, 884,760.

Basically substituted phenthiazine-9-dioxides and process of production thereof. Chemische Fabrik Premonta, G.m.b.H. 884,661.

Production of α, γ-dihydroxy-β,β-dimethylbutyra-mide. Nopco Chemical Co. 884,678.

Preparation of derivatives of pantothenic acid. Nopco Chemical Co. 884,679.

Process for preparing β-(hydroxyalkyl) hydrazinium salts, W. R. Grace & Co. 884,669.

Benzothiadiazine compounds, Chinoin Gyogyszer-Es Vegyeszeti Termekek Gyara, R.T. 884,628. Production of the antibiotic lagosin, Glaxo Laboratories, Ltd. 884,711.

Derivatives of the antibiotic lagosin, Glaxo Lab oratories, Ltd. 884,712.

Olefinic halides and a process for their prepara-Soc. des Usines Chimiques Rhone-Poulene, 884,638.

Method for producing L-pyrrolidonecarboxylic acid and its salts. Kyowa Hakko Kogyo Co., Ltd. 884,415.

Process for the production of esters of thioboric acid and hypothioboric acids, Farbenfabriken Bayer, A.G. 884,650.

Method of preparing starch derivatives, A. E. Staley Manufacturing Co. 884,696.

Production of pentaerythritol dichlorhydri Badische Ailin-& Soda-Fabrik, A.G. 884,441. dichlorhydrin.

Cyclopropane derivatives. Soc. des Usines Chimiques Rhone-Poulcnc. 884,637.

Unsaturated tertiary alcohols and a process for their preparation. Soc. des Usines Chimiques Rhone-Poulene, 884,639. Polyolefinic alcohols and a process for their pre-

paration, Soc. des Usines Chimiques Rhone-Poulene, 884,640.

2-(4-pyridyl) ethylhydrazine, Norwich Pharmacal Co. 884,606.

6-methyl-19-nor-steroids and process for the preparation thereof. Organo Laboratories, Ltd.

18, 20-Epoxy steroids, G. D. Searle & Co. 884.572.

18. 20-Epoxy steroid derivatives, G. D. Searle & Co. 884,571.

Esters of phosphorus acids and insecticidal compositions containing them. Farbenfabriken Bayer, A.G. 884,613.

Process for the control of micro-organisms, Imperial Chemical Industries, 884,541.

Wrapping or packing material having a preserving action, and process for its manufacture. Farbwerke Hoechst, A.G. 884,479.

Medical appliances. W. Gouder, 884,357 Container with a screw stopper for closing the

container neck. A. Krautkrämer, 884,691. British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," October 18

For essential oils; and flavourings consisting principally of essential oils (3)

SEESYDE, 821,959, by Cumming Parsons, Ltd., Manchester, 9.

For pharmaceutical preparations and substances for the treatment of biliary and allied disorders (5)

CHOLAXINE, 809,256, by Michel Delalande, Paris, France.

For disinfectants containing chlorinated phenolic compounds (5)

SAN PHENO, 813,381, by Huntingdon Laboratories, Inc., Huntingdon, Indiana, U.S.A.

For hematinic preparations for pharmaceutical

BELSERENE, 814,744, by Bristol-Mycrs Co., New York U.S.A.

For pharmaceutical preparations and substances for human and veterinary use (5)

OTAMYLON, 816,905, BAYUM, 818,941, FONICILLIN, 818,944, PORCULIN, 819,585,

by Winthrop Group, Ltd., Surbiton, Surrey. For all goods, but not including insecticides for agricultural and horticultural purposes or any goods of the same description (5)

VITAFOL, 818,230, by Vita Zahnfabrik H. Rauter, K.G., Essen, Germany.

For all goods, but not including dental filling materials or any goods of the same description

ORTOSIL, 818,787, by Boots Pure Drug Co., Ltd., Nottingham.

For preparations for use as nutritional additives to pharmaceutical substances and to infants' and invalids' foods (5)

SERAVIT, 819,821, by Powell & Scholefield. Ltd., Liverpool, 7.

For pharmaceutical preparations and substances

ASTRAFER, 819,991, by A. B. Astra, Apotekarnes Kemiska Fabriker, Södertalje, Sweden. DIVAHISTAN, 822,991, by Diva Labora-torium, A.G., Zurich, 37, Switzerland.

For all goods (5) PERIAPEC, 820,736, by Merck & Co., Ltd., Rahway, New Jersey, U.S.A.

For fungicides (5)

PHYTOSTREPTIN, 820,824, by Pabst Brewing Co., Milwaukee, Wisconsin, U.S.A.

For pharmaceutical preparations and substances. all for the treatment of the feet (5)

PEDICANT, 820,845, by Thornton & Ross, Ltd., Linthwaite, Huddersfield, Yorks.

For pharmaceutical preparations for use in discouraging the habit of smoking (5)
"HIOS," 820,954, by Anti Smoking Research,

Belfast, Northern Ireland.

pharmaceutical preparations (5)

VENNOCURAN, 821,210, by Knoll, A.G., Ludwigshaven-on-Rhine, Germany.

For all goods in capsule form (5)

TABSICAP, 821,541, by Lovens Kemiske Fabriks Handelsaktieselskab, Ballerup, Copenhagen, Denmark,

For insecticides, fungicides, herbicides and weedkilling preparations (5)

GRAMOXONE, 821,792, by Plant Protection, Ltd., London, S.W.1, and Yalding, Kent.

For pharmaceutical preparations and substances for human and veterinary use; sanitary substances and disinfectants (5)

EPODYL, 822,214, CARSTEVEN, 823,734, by Imperial Chemical Industries, Ltd., London, S.W.1.

For deodorants and disinfectants (5)

PURISINK, 822,392, by Samuel Wachsman, London, N.W.4.

For pharmaceutical substances containing sulphonamides, for human and veterinary use (5) SULFURIN, 822,838, by Imperial Chemical

Industries, Ltd., London, S.W.1. For hormone preparations (5)

ETHIFASTON, 823,250, by N.V. Philips-Duphar, Amsterdam, Holland.

For electric shaving instruments and parts (8) REMINGTON LEKTRONIC, 803,039, Remington Rand, Ltd., London, W.C.1.

For photographic flashlamps (9)

PHOTOFLUX, 804,646, by Philips Electrical, Ltd., London, W.C.2.

For tooth-brush holders; soap boxes and soap dishes; hair brushes, tooth-brushes, clothes brushes and shoe brushes; hair combs; combs and brushes, all for animals; thermally insulated containers for food and for beverages, etc. (21)

Device including the words THE FLINT-STONES, 812,238, by Screen Gems, Inc., New Device York, U.S.A.

From the "Trade Marks Journal," October 25

For perfumes, cosmetic preparations, non-medicated toilet preparations, essential oils, preparations for the hair, and dentifrices (3)

LADY AMIROL, 807,818, by Clairol Inc., New York, U.S.A.

For after-shave lotions and talcum powder, none being medicated (3)

HUSSAR, 808,828, by Florogen, Ltd., Mitcham,

Surrey. For non-medicated toilet preparations, face powders, lipsticks, shampoos; and facial cosmetics in

the nature of masks (3) KEROMASK, 811,008, by Scientific Pharmacals, Ltd., London, N.1.

For non-medicated toilet preparations, perfumes, cosmetics, hair lotions and dentifrices (3)

DAY DAWN, 814,225, by Burdall's, Ltd., Sheffield, 6.

For preparations and substances for laundry use; cleaning, polishing, scouring and abrasive preparations; and soaps (3)

EVOMASTIC, 822,877, by Evode, Ltd., Stafford.

For cleaning preparations (3)

STALAV, 823,423, by Stansell-Adam Chemical Co., London, E.15.

CONTEMPORARY **THEMES**

Subjects of contributions in current medical and technical periodicals

BODY COMPOSITION. Science, September 29.

LEAVES. Acquired tolerance, to heat. Science. September 29.

ALKALINE PHOSPHATASE in human sera and pla-centae, Science, October 6. TOXIC SUBSTANCES, Mode of action of some, Brit, med. J., October 28.

ULTRASONICS as an aid to diagnostics. Lancet. October 28.

HIGH SPEED PHOTOGRAPHY. The use of spark gaps for. Electronic Engineering, November.

PHINOL. Use of in determining ehromatographic purity. *Nature*, October 28. PYRIDINE N-OXIDE, Prevention of freezing damage

to living cells by. *Nature*, October 28.

CETYLTRIMETHYLAMMONIUM BROMIDE. Repetitive

after-discharge produced by drugs in nerves treated with. Nature, October 28. M. & B. 4596. A new prophylactic trypanocidal

2,7-di-(m-amidinophebyldiazoamine)-10drug. ethyl-9-phenyl-phenanthridinium ehloride dihydro-chloride, Nature, October 28.

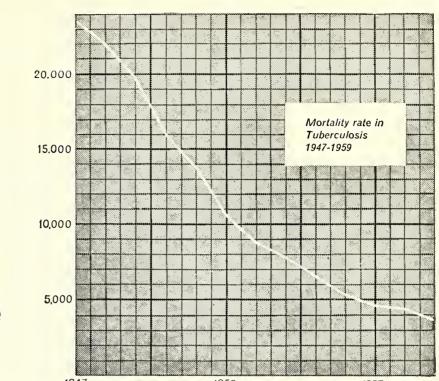
1,3-DIPOLAR CYCLOADDITIONS, Proc. chem. Soc., October.

ANTHELMINTIC TREATMENT of domestic animals. Recent advances in the, Vet, Rec., October 28. OXYTETRACYCLINE. The use of in the prevention of neonatal scouring in piglets. Vet. Rec., Octo-

IMMUNISATION to schistosama mansoni in mice inoculated with radiated cercariae. October 13. Science,

COCAINE. Explanation of cocaine desensitisation of blood pressure responses to ephedrine. Science, October 13.

MORPHINE. Effect of deuteration of n-CH3 group on potency and enzymatic n-demethylation of morphine, Science, October 13.



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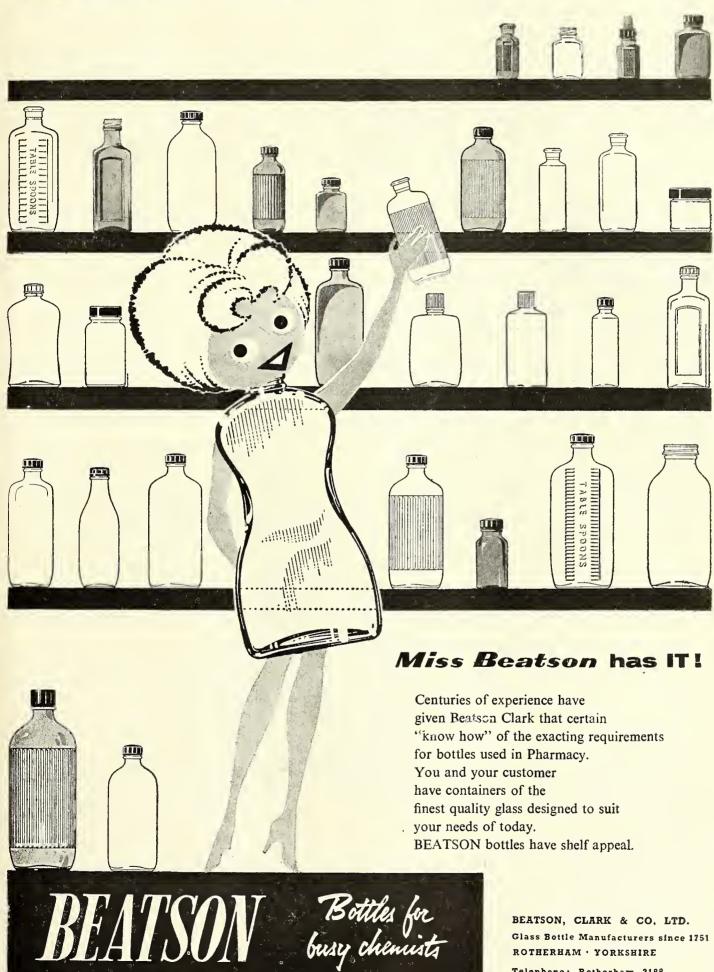
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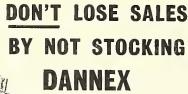


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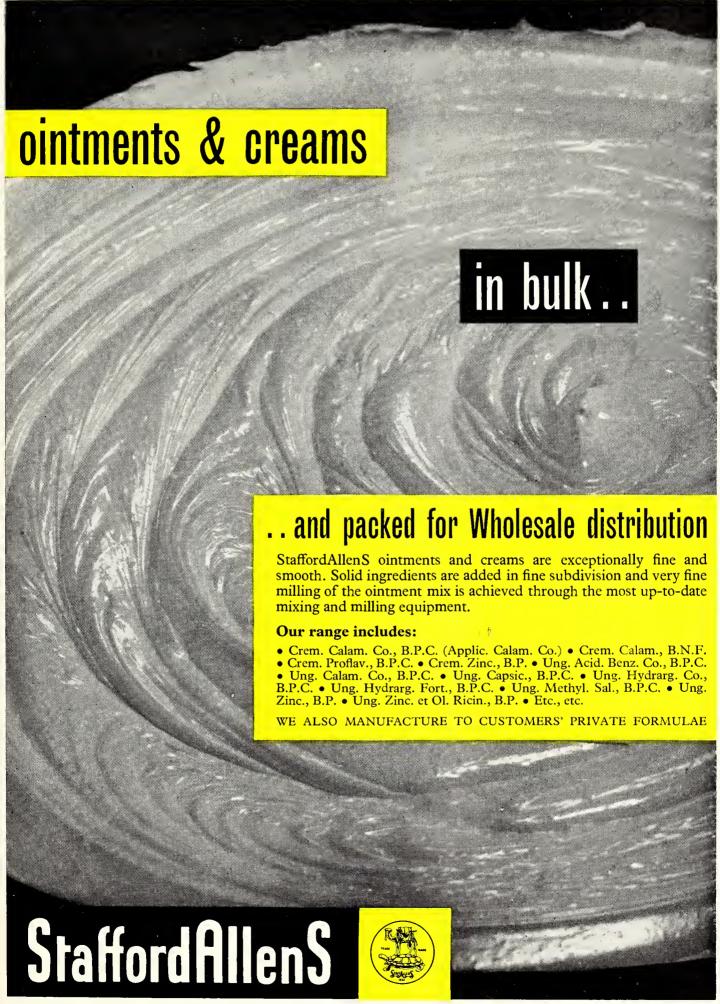
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In packs of 12, 100 and 500

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Each teaspoonful (5 ml.) contains 150 mg. penicillin V as potassium salt. Available in Bottles of 30 and 60 ml. Basic N.H.S. cost 4/3d. and 6/11d., respectively.



Ph.105

IMPERIAL CHEMICAL INDUSTRIES LIMITED PHARMACEUTICALS DIVISION WILMSLOW CHESHIRE

DAILY EXPRESS



ON NOVEMBER 8TH

MORE THAN
13,000,000
READERS OF THE

DAILY EXPRESS

WILL SEE
THIS ADVERTISEMENT

To be followed by other hard-hitting advertisements in the Daily Express, Sunday Express and other national papers all through the winter.

Idufruta
THE HERBAL COUGH MEDICINE

See that your stocks are adequate to meet an even bigger demand than last year.



MORE
ADVERTISING
MORE
SALES
MORE
PROFIT

LIQUFRUTA LABORATORIES · SANITAS HOUSE · CLAPHAM ROAD · LONDON · SW9

MEMBER OF THE SANITAS GROUP

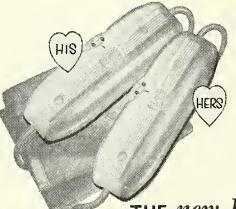
Sleeping Beauty is wide-awake to 1962 trends!

Now you can offer a doublesize electric blanket with **DUAL VARIABLE HEAT CONTROL BUT AT A PRICE THAT** WIDENS YOUR MARKET!

With trade trends swinging fast to full variable heat control Rogerson Page Ltd., have entered the electric blanket market with the most competitive priced double blanket, with dual control and with the safety features backed by top quality. Here is a sure seller that meets all the public demands at the price they can afford. Now for the first time is a real opportunity to make electric blankets one of your most profitable selling lines. Order now and get your full share of this growing business. growing business.

Oouble Bed Size—60" x 48" Fitted with Dual 'Ceetherm' Variable Heat Controls. £11.11.0 plus 3/4d. SURCHARGE P.T. Single Bed Size—60" x 30" Fitted with 'Ceetherm' Variable Heat Control. £5.18.6

plus I/9d. SURCHARGE P.T.





FULL ADVERTISING SUPPORT

IDEAL HOME MODERN WOMAN

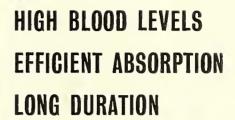
HOME GOOD HOUSEKEEPING

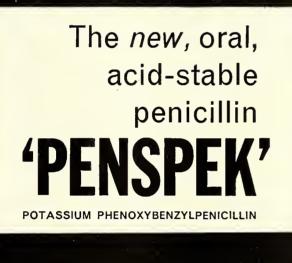
EVERYWOMAN HOUSE BEAUTIFUL HOMES & GARDENS HOUSEWIFE

THE new Rogerson Page



ALL ENQUIRIES TO ROGERSON PAGE LTD., WOKING, SURREY BROOKWOOD 2571





'PENSPEK' tablets

Available in one strength only — 125 mg.

Dosage: One tablet six to eight hourly.

Pack of 12 tablets: Trade Price 9s. 2d. Retail Price 13s. 9d. Pack of 100 tablets: Trade Price 59s. 2d. Retail Price 88s. 9d.

'PENSPEK' syrup

Presented as granules for suspension in water. Each 5 ml. teaspoonful contains 62.5 mg. *Dosage*: One or two 5 ml. teaspoonfuls six to eight hourly according to age.

Bottles of 60 ml. (2 fl. oz.) Trade Price 6s. 8d. Retail Price 10s. od.

DC(B)L

THE DISTILLERS COMPANY (Biochemicals) LIMITED Broadway House, The Broadway, Wimbledon, London, S.W.19 Telephone: LIBerty 6600 Owners of the trade mark 'PENSPEK'





A new revolutionary shampoo-type hair colouring for concealing GREY HAIRS

Color-Watch

as easy to use as successful Color-Glo

Over 13,000,000 women to see COLOR-MATCH advertising now appearing in

WOMAN · WOMAN'S OWN **EVERYWOMAN** WOMAN & BEAUTY MODERN WOMAN SUNDAY EXPRESS

Make sure you have a complete range of Color-Match shades to meet the immense demand

* COLOR-MATCH colours grey hairs to match the rest of the hair without changing its natural basic colour.

* COLOR-MATCH is absolutely harmless. It needs no skin test. It is a liquid, as simple to use as a shampoo, is semi-permanent, lasts through 6-8 shampoos, and leaves the hair in beautiful condition.

* COLOR-MATCH is certain to create an entirely new hair colouring market, from which you will earn big new profits.

made in six beautiful shades of brown

> Dark Brown Dark Warm Brown Mid-Brown Mid-Warm Brown **Light Brown Light Golden Brown**

Retail Price 5/8 per bottle Trade Price 33/2 per doz.

Purchase Tax 18/3 per doz.





L'OREAL · PARIS

Manufactured and Distributed by: GOLDEN LIMITED

Berkeley Square House, Berkeley Square, London, W.1. Mayfair 8240.

School & Technical Division: 7 Grosvenor Street, London, W.1. Hyde Park 1671

LET THE NEW "PHOTOFLUX" FLASHBULBS STIMULATE YOUR SALES — while saving you space!

AGTUAL SIZE
OF PACK CONTAINING
FIVE FLASHBULBS

Thanks to their new Zirconium fillings, the new "Photoflux" PF1 and PF1B Flashbulbs are even more compact. This not only makes them handier and more convenient for your customers to use, it makes them handier and more compact for you to stock: 200 bulbs in a box that's only $7\frac{1}{2}$ " x $7\frac{1}{2}$ " x 4". And they're so very easy to sell!

"Photoflux" PF1 and PF1B bulbs are supplied in sleeves of 5, or in standard boxes of 200. The popular "Photoflux" PF5 bulbs, with a light output of 18,000 lumen-seconds, are available as previously.



PHILIPS PROTOFUX



PHILIPS ELECTRICAL LIMITED

Century House · Shaftesbury Avenue · London WC2

(PF 3327)



DEPARTMENT C.D., 70 PILGRIM STREET, NEWCASTLE UPON TYNE, I.

SURDENT MANUFACTURING CO. LTD.

Registered (

784-788 HIGH ROAD, LONDON, N.17

Telephone: TOT 4627-8 Cables: Surdent, London N.17

Seven reasons why SURDENT SUNGLASSES will bring you **business**

STYLISH
STYLISH
RESTEUL
RESTEUL
RESTEUL
RESTEUL
REGANT
ELEGANT T ASTEFUL See us at:

Trade Mark

THE WHOLESALE BUYERS' GIFT FAIR MOUNT ROYAL HOTEL-LONDON ROOM 355 Third Floor DECEMBER 11th - 14th

Heavy Gauge Steel SHELVING



Brand new—Manufactured in our own works.

Shelves adjustable every inch. Heavy gauge shelves will carry 400 lb. distributed weight each. Stove enamelled dark green.

6 shelves per bay—Extra shelves 8/- each.

Quantity discounts.

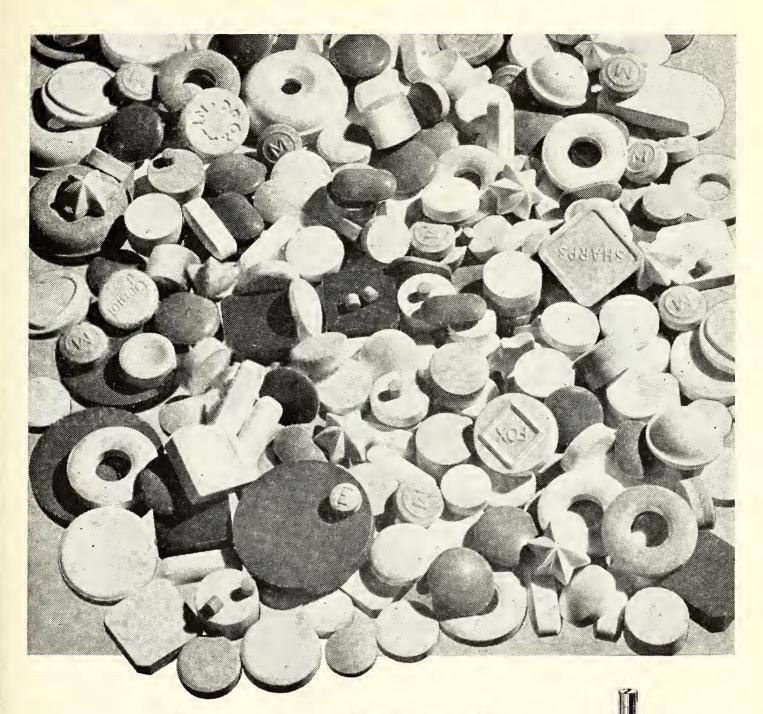
Other sizes available. Also available in white at £5 per bay

Unassembled, ready for erection

DELIVERED FREE! IN ENGLAND, SCOTLAND AND WALES

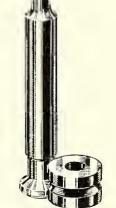
THE ONLY HEAVY GAUGE SHELVING AT THIS PRICE

Shelving Division, Heywood, Lancs.



Think of a shape!

any shape, and Manesty will be able to design suitable Punches and Dies. Manesty run Britain's largest punch and die plant and offer an unrivalled service to tablet makers everywhere. New methods of producing a superlative finish on punch tips and die bores ensure an extra long working life. Punches can be engraved or embossed with name or trade mark. The experience of over 50 years of making punches and dies is at your disposal. We know the correct steels to use, the correct hardening and annealing to employ, and the best tolerance to use for your requirements.



Send us your enquiries

MANESTY PUNCHES & DIES

MANESTY MACHINES LTD., SPEKE, LIVERPOOL 24 Telephone: HUNts Cross 1972 Telegrams: Manesty Liverpool 24

MANESTY

TABLET MACHINES . MIXERS . COATING PANS . COMMINUTORS . DRUG MILLS . DRYING OVENS GRANULATORS . AUTOMATIC WATER STILLS

tiglyssin

Advance information

for the pharmaceutical profession

on 'tiglyssin'

a new Duncan Flockhart product



In a week's time we will be telling the medical profession about 'Tiglyssin'. Here are details of special pharmaceutical interest designed to prepare you for requests from doctors for information and for the dispensing of prescriptions.

Registered brand name: TIGLYSSIN

Character: a compressed tablet of 250 mgm of Tigloidine Hydrobromide, an alkaloid of the Atropine series first isolated from Duboisia myoporoides in the laboratories of T & H Smith Ltd of Edinburgh (an associate of Duncan, Flockhart & Co Ltd) and now prepared synthetically.

Uses: for the symptomatic relief of spasticity and spasms due to organic upper motor neurone disease or to certain types of damage.

Statutory position: P1: S1

tiglyssin

Pack and Price: extruded aluminium screw-cap container of 100 tablets (250 mgm), basic NHS price 50s. plus PT 13s. 9d.

Your wholesaler has been sent an initial stock. Our Standard Publication on 'Tiglyssin', available free of charge on request, contains much more information than can be included in this present announcement. May we please send you a copy for your files and additional copies for you to supply to your medical friends?

To: Duncan, Flockhart & Co Ltd, Wheatfield Road, Edir	burgh 11
---	----------

Please supply copies of your Standard Publication on

tiglyssin

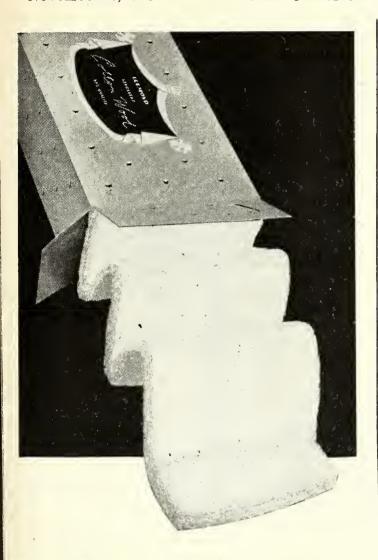
To: (print please)

Name:

Address: ..

DUNCAN, FLOCKHART & CO LTD, EDINBURGH 11

450



E.ILLINGWORTH & CO. (Bradford) Ltd.

COTTON WOOLS

ILLMOND-COTTON WOOL DISPENSER PACK

Package has tuck-in ends and can be re-sealed. Hygiene ensured. Elegant design of pack makes it perfect for a lady's dressing table. Only as much as is needed is pulled out at a time.

B.P.C. quality cotton wools. Hospital quality cotton wool (Drug Tariff). Sterilised and Unsterilised in all weights, for Home and Export.

Quantities labelled with your own labels from ½ oz. to 16 oz. standard packets.

Bottle neck wool, filter pads, gauze and cotton tissue B.P.C. Quality. Respirator refills.

PACKING MATERIALS

NEEDLELOOM FELTS

for thermal, sound and vibra-tion insulation and protection.

COTTON WOOLS

Bleached and Unbleached Rolls from 2 in, to 40 in, wide, weights 3 oz, per sq. yd. upwards.

Sized Waddings. Cut Sizes or Rolls.

E. ILLINGWORTH & CO. (Bradford) Ltd.

SHELF MILLS, SHELF, NR. HALIFAX, YORKS.

Tel: BRADFORD 76261/9 Grams: "ILLMOND BRADFORD"



THE CHEMIST AND DRUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 176

November 4, 1961

No. 4264

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MORGAN BROTHERS (PUBLISHERS), LTD., at 28 Essex Street, Strand, London, W.C.2 Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

MORGAN BROTHERS (PUBLISHERS), LTD. 1961

GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679, LEEDS, 16: 32 Wynford Rise, West Park. Phone: Leeds 67 8438. WOLVERHAMPTON: 89 Woodland Avenue, Tettenham Wood. Phone: Wolverhampton 52301.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.



WRIGHT LAYMAN & UMNEY LIMITED, 42-50 SOUTHWARK STREET, LONDON, S.E.I. Phone: HOP 4021

Tair Magic Black

IS THE FIRST AND FASTEST-MOVING SEMI-PERMANENT BLACK HAIR COLORING

COVERS UP TO 50% GREY HAIR

NO SKIN TEST



In the new sparkling pack that gives the whole Hair Magic range new eye-appeal.

Hair Magic Black conditions, cleanses and colors in one application.

You pay: 1/10 + P.T. per bottle
You get: 4/1 per bottle
Your profit: 1/3 on every bottle of
quick-selling Hair Magic Black

Backed by the biggest-ever Hair Magic advertising campaign in:

DAILY MIRROR - WOMAN - WOMAN'S OWN
WOMAN'S MIRROR - WOMAN'S REALM
HOUSEWIFE - GOOD HOUSEKEEPING - VANITY FAIR
EVERYWOMAN - SHE - MODERN WOMAN
WOMAN'S JOURNAL - ARGUS WOMEN'S GROUP
WOMAN & BEAUTY - HAIR FASHION

Hair Magic Black is made by inecto, the largest and most experienced manufacturers of hair colouring in the world

Advice Bureau, INECTO HOUSE · 27 DOVER STREET · LONDON · W.I : HYDe Park 7541

PIFCO

HAIRDRYERS

faster drying-faster selling

PIFCO Princess

for better giving

The gift that every girl will adore—luxury home hairdrying for the professional touch. The gift that's bound to make a hit with every Miss—the silent-operating, delightful-looking Princess Hairdryer; also available, a specially designed Stand; Comb attachment for styling hair while it's drying; Plastic Hood for faster drying; and a flexible Hose.

TO SELL SEPARATELY Princess Hairdryer 64/-. Adjustable Stand in matching colours. 16/8. Hood, Hose & Comb in matching colours. 27/5.





PIFCO HI-SPEED

for the girl in a hurry

Faster hair beauty for my fair lady is the mood of the moment—the present pattern of modern living. And the PIFCO HI-SPEED is the practical answer for the girl in a hurry.

Pifco's powerful motor dries hair fastest of all, leaving it silky-soft.

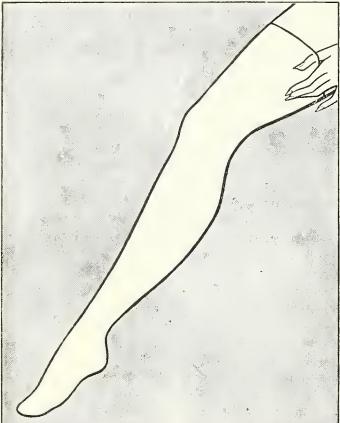
Made for high speed modern living—PIFCO is the popular choice everywhere. And this is why more and more sales come your way when you stock and sell PIFCO 'Hi-Speed'.

Packed in luxury gift boxes for extra sales appeal. Fashion pastel shades of petal pink, pastel blue, lilac and ivory.

Hi-Speed Hairdryer 75/8. Adjustable Stand 21/2. Hairdrying Hood 9/8.

YOUR USUAL WHOLESALER ORDER NOW THROUGH





Advise your customers suffering from Varicose Veins and similar leg conditions to wear Lastonet—the surgical stockings which are made of the coolest, firmest and most comfortable elastic net imaginable. Lastonet are made to measure. They are available under the N.H.S. and are despatched within 3-5 days of receipt of your order.

Recommend the best, recommend Lastonet.

LASTONET PRODUCTS LTD

CARN BREA · CORNWALL

When you Price-Mark CLEARLY with the WAM

FLICKON (regd.) SELF-ADHESIVE LABELS

- Users describe WAM Baby "the finest price-marking machine on market!"
- Long-life steel flickdown radials—no messy type.
- You can imprint your name at same time.

Using

• Labels stick at a touch—cleanly removed after use.

WAM ORGANISATION
SPEEDWORK SYSTEMS LIMITED
18-20 BOWLERS CROFT, BASILDON, ESSEX
TELEPHONE 20253-5



CORKS

for PRESCRIPTION
BOTTLES

Chemists know from experience to specify ROBINSON cork stoppers. Their excellent quality never varies and a full range of sizes is always available from stock.

For full details and prices write to:

21 HORTON ST. Halifax

Tel: 62444

London Office: 54-62 Regent Street, W.1 Tel: GER 3965/8



IT'S GOING TO BE A CEETHERM WINTER!

. because sales are definitely swinging to full Variable Heat Control electric blankets. Keep your stocks up for the big new business this winter—but remember the accent is on fully Variable Heat Control .. that's why it's going to be a 'Ceetherm' winter.

All enquiries to-Rogerson Page Limited, Knaphill, Woking, Surrey. Tel: Brookwood 2571

Serfection in Protection

ENSURE SATISFIED CUSTOMERS BY STOCKING AND DISPLAYING "SYLVIA"

PACKETS OF TWELVE:

SIZE	•••	•••	•••	0	1	2	3	Maternity Pads	
TRADE	•••	• • •	•••	20s. 0d.	21s. 6d.	25s. 3d.	31s. 3d.	35s. 9d.	doz. pkts.
RETAIL		• • •	• • •	2s. 2d.	2s. 4d.	2s. 9d.	3s. 5d.	4s. 0d.	per pkt.
SIZE I IN PACKETS OF 6 TRADE: 10/11 DOZEN PACKETS RETAIL: 1/2# PACKET									

QUANTITY ALLOWANCES

These allowances apply to quantities taken in one delivery to one address. Lots of 20 gross lots and upwards must be made up of standard case quantities as shown.

ALLOW	ANCES	•
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80

7 gross towels of a size or assorted—less 6d. gross towels -less 1/-40 —less 1/3

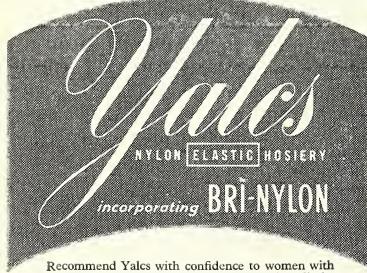
-less 1/6

STANDARD CASES:

Sizes 0 and 2	•••	•••	• • •	3 gross towels
Size 1		•••	• • •	4 gross towels
Size 3 and Maternity	• • •	•••	•••	2 gross towels
Size 1 in sixes				3 gross towels

A PRODUCT OF CENSON, GERNANDE Co. Ltd. OLDBURY, BIRMINGHAM

Telephone: BROadwell 1355 (5 lines)



actual or incipient varicosities. Yalcs give all the therapeutic support of true two-way stretch-without putting a strain on vanity!

Yalcs are available ex stock—at full trade discount —in four types:

SUPERMESH Retailing at 63/- pair

Retailing at 63/- pair

SUPERFIT SERVICE

Retailing at 63/- pair Retailing at 53/3 pair

Yalcs Service may be supplied against N.H.S. prescription in Nylon Elastic Yarn (Lightweight) Two-stretch. Yalcs Elastic Socks for Men also available.

Display material, leaflets, shade cards available from Sales Agents:

GLENSIDE (LONDON) LTD, 37 Percy St, London, WI

CHEMICALS GUMS

JEW YORK



ESSENTI SPICES WAXES

MENTHOL AGAR AGAR ELEMI LOBELIA CASCARA IPECAC.

HAMBURG

JOHN KELLYS (LONDON) LTD.

24 OLD BROAD STREET, E.C.2.

Telephone: LONdon Wall 6585 (4 lines) Telegrams: "Ergotine, Stock, London' Telex: 28760

Retail Price 2'6

Profit 10d on best terms

Most SUCCESSFUL!

Mimodent

LUXURY IN SANI-PROTECTION

with a special deodorant

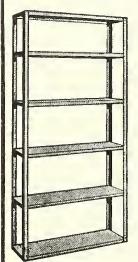
Sales clearly show that Mimosept is the sani-napkin for modern women. They prefer its extra whiteness, its greater softness and absorbency. They're happy about the D-5 deodorant, and delighted with the white polythene pack.

Advertising is designed to back your sales forcibly month after month after month.

TRADE TERMS AND OTHER DETAILS FROM: DALMAS LIMITED, LEICESTER

STEEL SHELVING

BRAND NEW HEAVY GAUGE



6 ft. HIGH x 34 in. WIDE x 12 in. DEEP WITH 6 SHELVES AS ILLUSTRATED

60/-

FREE delivery within 14 days. Northern Scotland, Ireland, I.O.M. carriage forward.

SEND CASH OR CHEQUE WITH ORDER, OR C.O.D. ENGLAND AND WALES.

Height 6'	Width 34"	Depth 12"	5helves 6	Each 60/-	3 or more 58/-	Ext. Shelves 8/-
6' 7' 7'	42" 34"	12" 12"	6 6 6	58/- 86/- 68/-	56/- 84/- 66/-	7/- 11/- 8/-

OR ANY SIZE MADE TO ORDER.

Each shelf will hold over 3 cwt.

Shelves adjustable every 2"

Top quality stove enamelled green finish

WHITE ENAMEL UNITS 30/- EXTRA.

HANDY DRAWER UNIT

BRAND NEW

ONLY

£7-15-0

42" high

13" wide

12" deep.

20 drawers

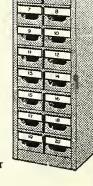
5" wide

3" high

11¼" long.

Write now for list

of other sizes.



BUY DIRECT FROM MANUFACTURER

ROCHDALE METAL PRODUCTS
DEVON STREET WORKS
Tel. Rochdale 40070/40078

ILODERM

no other in the treatment of:—

- **BURNS** •
- BEDSORES •
- IMPETIGO .
- **NAPKIN RASH**
 - DERMATITIS .
- CRACKED NIPPLES .

ask your usual wholesale House for supplies

ILON LABORATORIES

LORNE STREET. HAMILTON. LANARKSHIRE



for fine chemicals especially:

ASPIRIN B.P. "FRE-FLO"

SALICYLIC ACID B.P.

SODIUM SALICYLATE B.P.

SALOL B.P.C.

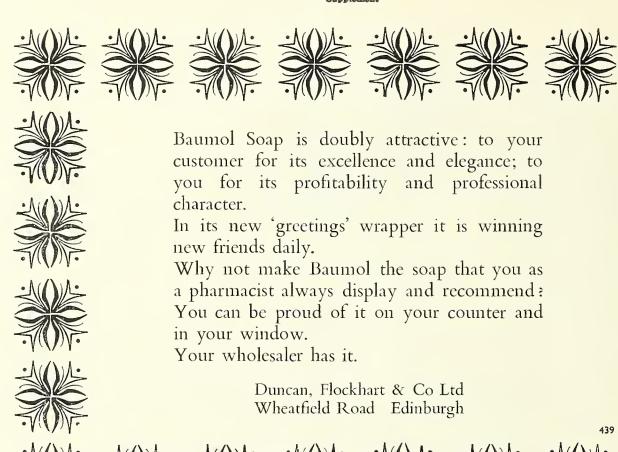
VANILLIN 100%

H. W. GRAESSER-THOMAS LIMITED

49 LEADENHALL STREET, LONDON, E.C.3

TELEPHONES: ROYAL 3011-6111





Quinine Sulphate B.P. 1953 & 1932

THE BRITISH
DYEWOOD COMPANY LTD.
19 St. Vincent Place,
Glasgow, C.1.

Do not disappoint your customers

-stock and display

akit

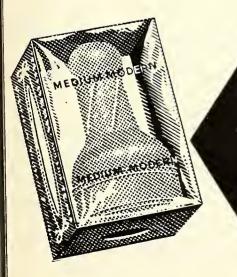
Powders and tablets for the safe and speedy relief of headaches, colds, chills, rheumatic and nerve pains.

EX ALL LEADING WHOLESALE HOUSES



This year's CANNON campaign now in full swing in the National Press, Women's Magazines, Radio and TV Times and in the Baby Publications.

The advertisements emphasize all the unbeatable qualities that make Cannon feeding 'nearest to natural' and end the feeding time temperament common with inferior products.



Supporting your sales of CANNON MODERN Anti-colic Teats
The preferred baby teat today!

ORDER NOW TO ENSURE AMPLE SUPPLIES!



For all your

Botanicals · Gums · Balsams · Essential Oils · Spices also a select range of Fine Chemicals See our List.

MITED

7 Leather Market, London, S.E.I.

Tel: HOP 0825

THE CREAM OF THE DENTURE FIXATIVE TRADE

is for those Chemists who stock and show POLI-GRIP in its attractive counter display unit. Widely advertised, POLI-GRIP has captured the favour of denture wearers who prefer a cream adhesive. And its sales are increasing week by week! Retail price 2/- per tube.

Please order from your usual wholesaler.

DENTURE FIXATIVE CREAM STAFFORD-MILLER LTD · Hatfield · Herts



Sold for over 150 years

SOLAZZI CHEMISTS' BRAND



The words SOLAZZI and LIQUORICE have become very nearly synonymous. Loosens phlegm, soothes bronchitis and asthma, prevents in ection of the air passages (smog and smoke). A modern medicament in digestive disorders and gastric ulcers.

Can be obtained from all wholesalers

AMBYTHENE -

(BRAND OF POLYTHENE)



MEDICINE MEASURES

UNBREAKABLE-ACCURATE

with or without close fitting lids obtainable from usual distributors at 12/1 dozen with lids or 8/9 dozen without lids.

> Wholesaler's supplies obtainable direct from

AMPLEX APPLIANCES (KENT) LTD.

19 DARTMOUTH ROAD, HAYES, BROMLEY, KENT

(RAVensbourne 5531)

TRAGACANTH **GUM GUM KARAYA GUM ACACIA** WHOLE AND POWDERED M. HAMBURGER & SONS Phone: Plantation House MANSION MINCING LANE . LONDON E.C.3 HOUSE 4405 (3lines)

DUREX Gossamer



Now! Durex Gossamer comes to you in discreeter-than-ever new pack design, in pocket packs of either one dozen or quarter dozen.

BUREX Gessame

Remember! More and more people are changing to Durex Gossamer, the Sensitol Lubricated Protective, for added sensitivity.

MAKE 4 SALES IN ONE!

Durex Gossamer is available in pocket packs of one dozen in the dignified new grey and white outer.

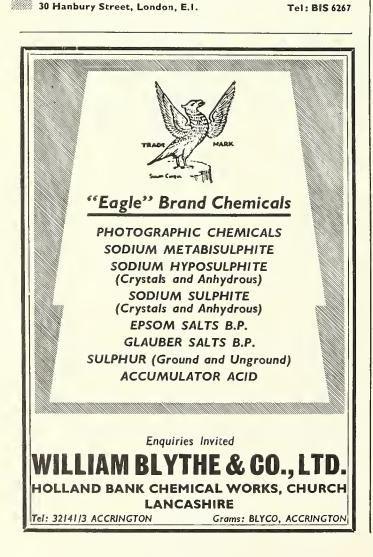
Sales show an increasing demand for packs of one dozen and many of your customers will prefer them.

Your next order will be in this NEW packaging

LONDON RUBBER (INDUSTRIES) LTD.,

Chingford, London, E.4.





6 ft. DISPLAY COUNTER



Make the most of your displays with this handsome counter. Sliding glass doors and adjustable shelf. Light oak finish.

Dimensions: 72" long, 36" high (including 6" legs), 24" deep.

Delivered free by our own van to all areas
Send for Illustrated Brochure

THIRSK

EQUIPMENT COMPANY LIMITED. Dept. C.D., 741-743 Garratt Lane, London, S.W.17. Tel: WIMbledon 2291 (4 lines)



W.H.BOX · 47 COBOURG STREET · PLYMOUTH

A Modern Version of an Old Favourite

The Art Price 21/- (postage 1/4) of Dispensing

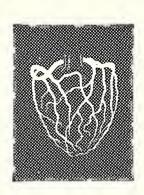
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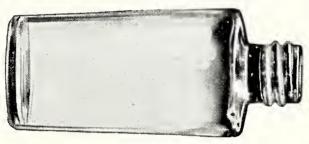


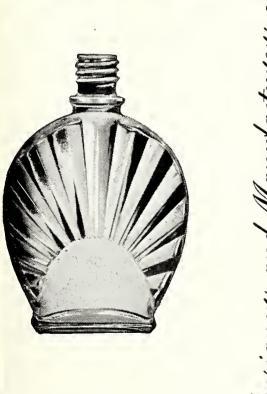


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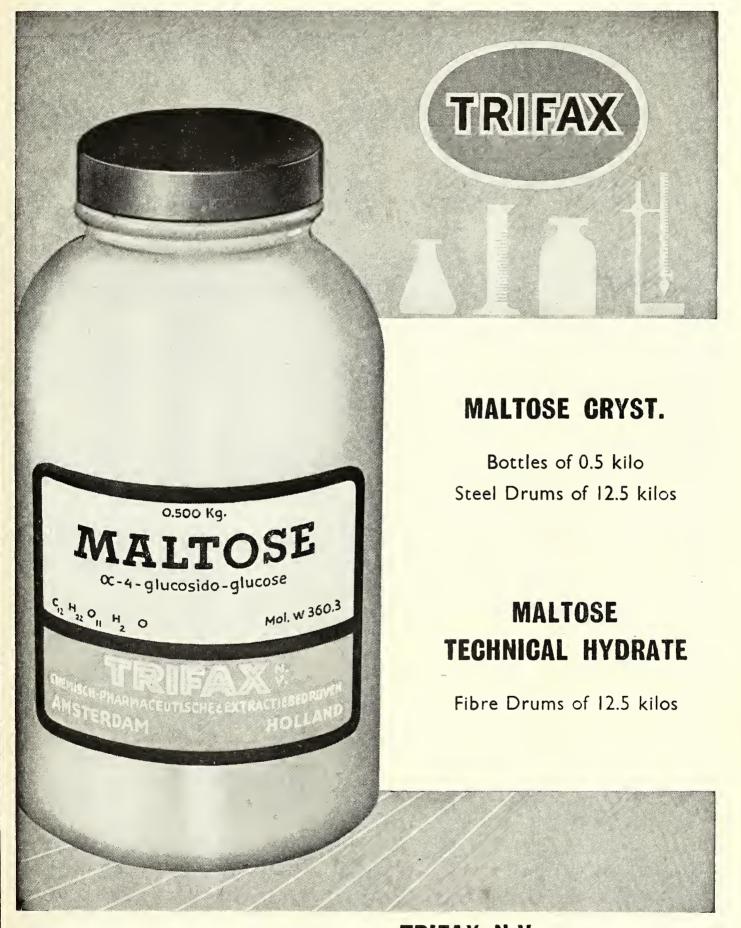
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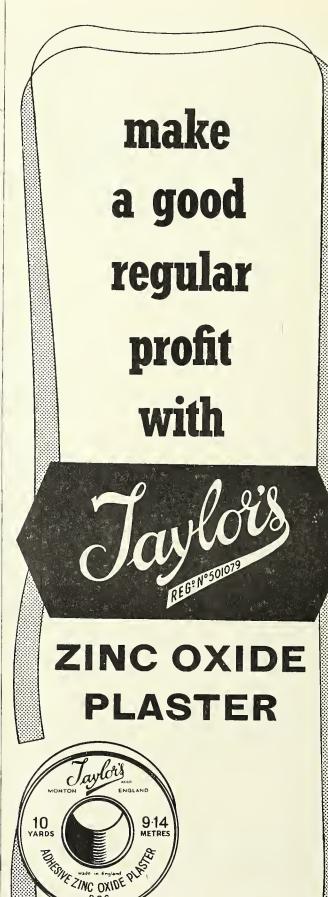
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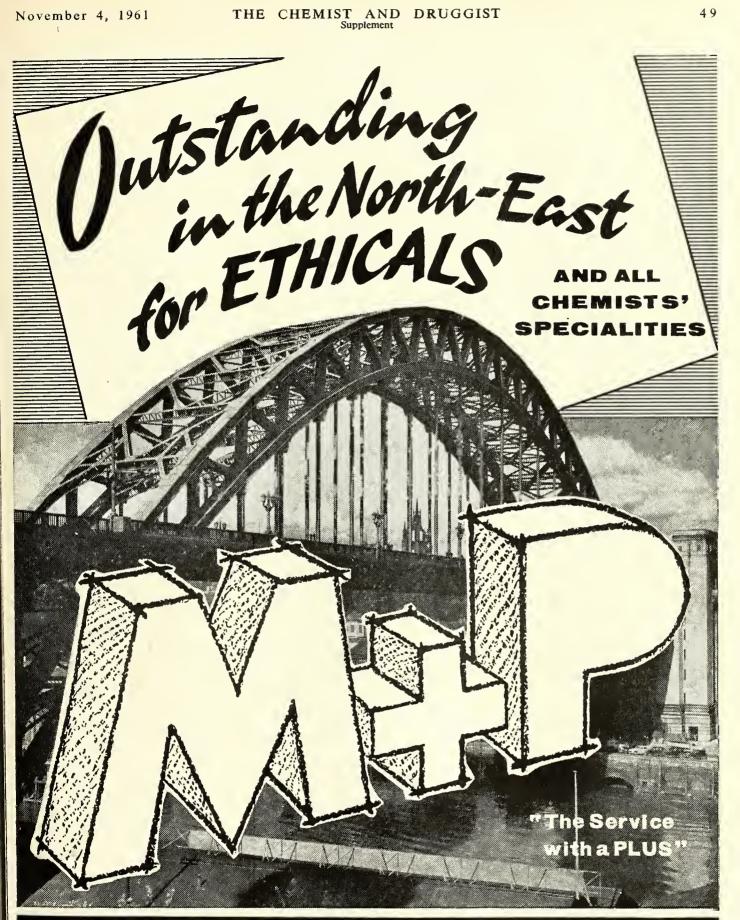


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C 6993

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required in the Pharmacies of the Hospitals in the Southend-on-Sea Group. Salary £460 per annum. The Hospitals are situated in pleasant surroundings and the post offers excellent opportunities for experience in all branches of pharmaceutical work, including dispensing for in-patients and for patients from a busy Consultative Out-patients' Department, manufacturing sterilising dressings arom a busy Consultative Out-patients' Department, manufacturing, sterilising, dressings and instruments. Applications, stating age, particulars of education, etc., with the names of two referees, should be sent to the Secretary, General Hospital, Southend-on-Sea, as soon as possible.

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C 7001

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